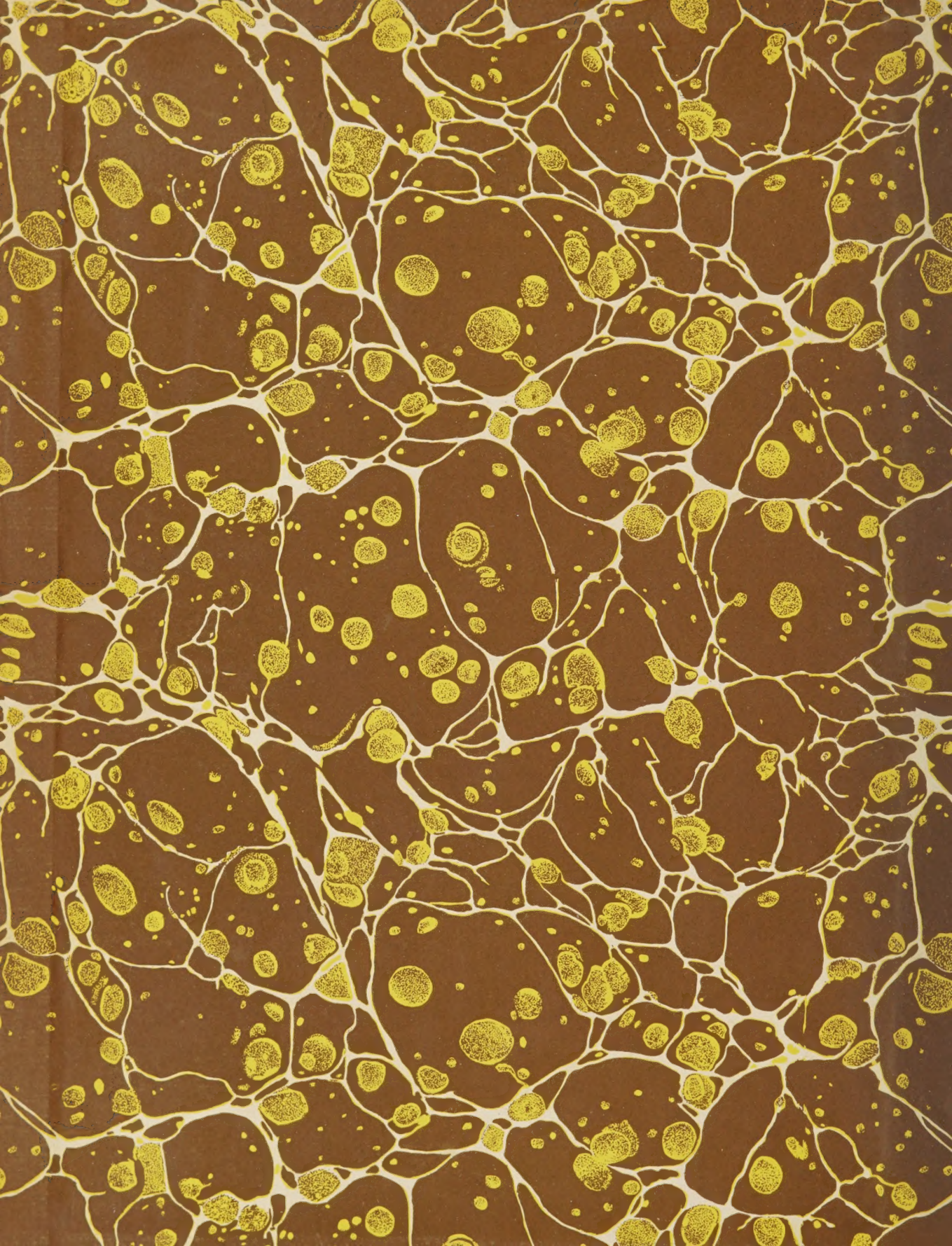
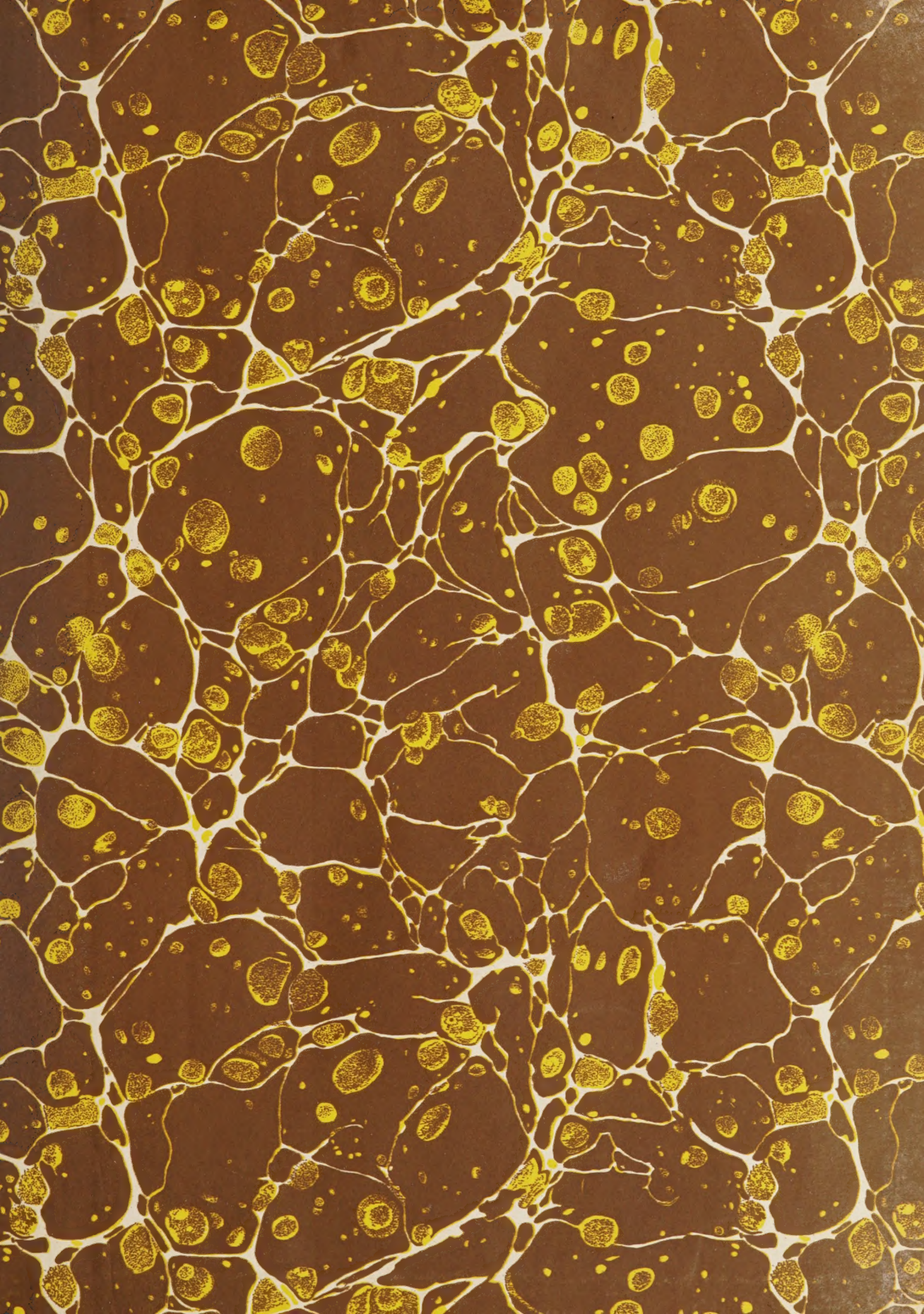


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Librarian, United States Department Agriculture

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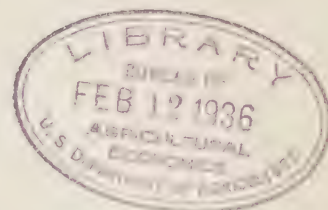
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AMERICAN LIBRARY ASSOCIATION SUB-COMMITTEE
ON INTERNATIONAL COOPERATION BETWEEN AGRICULTURAL LIBRARIES

The Executive Board of the American Library Association at its meeting in Chicago on January 1st approved the recommendation of Mr. Milton E. Lord, Chairman of the International Relations Committee, that consideration of international relations with agricultural libraries of other countries be vested in the general A. L. A. International Relations Committee, acting through an A. L. A. Sub-committee on International Cooperation between Agricultural Libraries, the Chairman of the Sub-committee to be a member of the general A. L. A. International Relations Committee.

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Farmers and the export market. Address of Henry A. Wallace before Annual convention of American farm bureau federation, Chicago, Dec. 10, 1935. 24 p.

Payrolls and food prices. Remarks by Henry A. Wallace over the National farm and home hour, NBC, December 17, 1935. 4 p.

The place of food research in national recovery. Address of Henry A. Wallace before the Associated grocery manufacturers of America, at the Waldorf-Astoria hotel, New York city, Nov. 14, 1935. 12 p.

Agricultural Adjustment Administration

The Agricultural adjustment act and national recovery. Paper by Chester C. Davis before joint session of American farm economic association and American statistical association in New York City. December 27, 1935. 16 p.

Continuing wheat adjustment. Address delivered by George E. Farrell at Fort Collins, Colorado, Dec. 3, 1935. 7 p. (Issued by Division of grains)

The cost of food. Address by Donald E. Montgomery, consumers' counsel, at the Conference on the high cost of living, Hotel Pennsylvania, New York City, Dec. 14, 1935. 15 p.

The grass revolution. By Chester C. Davis. 1935. 11 p. Address given before General session of the Association of land grant colleges and universities, Washington, D. C., Nov. 19, 1935.

Moving toward a potato adjustment program. 1935. 18 p.

Order regulating the handling of oranges and grapefruit grown in the states of California and Arizona. 1935. 13 p.

The price structure for milk. 1935. 81 p. (Technical paper no. 1) Issued by Dairy section.

*Bibliographies included in general list of bibliographies on page 30.

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Regional adjustment and democratic planning. Address by H. R. Tolley before Association of land grant colleges, Washington, D. C., Nov. 20, 1935. 15 p. (Issued by Division of program planning)

Some facts representing prices and income in the naval stores industry. By E. W. Braun and Norman Leon Gold. 1935. 19 p. (Issued by General crops section)

The south's choice, by Chester C. Davis, speaking before the Texas agricultural association in Dallas, Texas. Dec. 3, 1935. 14 p. 1935.

Bureau of Agricultural Economics

Acreage of commercial truck crops for market and for canning or manufacture, 1928-1935. 1935. 1 sheet. (Issued by Crop reporting board)

Agricultural income from production in 1935 and its effect on farmers' purchasing power. 1935. 7 p.

Benton harbor cash market fruit and vegetable summary, 1935 season. 1935. 2 p. (In cooperation with Michigan Dept. of agriculture, Bureau of foods and standards.)

Directory of teachers giving courses in rural sociology and rural life. 1935. 16 p. (Issued by Division of farm population and rural life)

Farm value of commercial truck crops for market and for canning or manufacture. 1928-1935. 1935. 1 sheet. (Issued by Crop reporting board)

Hog outlook charts for use with the Agricultural outlook for 1936. 1935. 23 p.

Larger feed supplies in relation to livestock numbers favor feeding. 1935. 2 p. (Special feed review) Issued by Hay, feed and seed division.

Marketing the southern Illinois peach crop; brief review of the 1935 season. By R. E. Keller. 1935. 7 p. (In cooperation with Illinois Dept. of agriculture, Division of markets)

Memoranda on building and railroad employment and purchases for use in preparing the outlook report on demand for the 1935 agricultural season. 1935. 14 p.

Milk equivalent of production of manufactured dairy products by states, 1934. 1935. 2 p. (Issued by Divisions of crop and livestock estimates, Dairy and poultry products, Statistical and historical research)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Agricultural Economics (Continued)

- Poultry and eggs outlook charts, for use with the Agricultural outlook for 1936. 1935. 29 p.
- Receipts from the sale of principal farm products, by states, October 1932-1935 and January to October 1932-1935. 1935. 7 p. (Issued by Division of statistical and historical research)
- Report of the Extension conference on barley improvement, University farm, St. Paul, Minn., June 27, 1935. 26 p. Nov. 15, 1935.
- Rules and regulations (as amended) of the Secretary of agriculture, governing the grading and certification of canned fruits and vegetables. (Under an act of Congress approved May 17, 1935 (Public no. 62, 74th Congress) 1935. 12 p.
- Sheep, lambs, and wool outlook charts for use with the Agricultural outlook for 1936. 29 p.
- The status of the dairy industry today; factors in the dairy outlook. By E. E. Vial. 1935. 8 p. (Issued by Division of statistical and historical research) Presented at the Middle states conference on milk control, Trenton, New Jersey, Dec. 9, 1935.
- Survey of protein content and other grading data of the 1935 barley crop of the midwestern and Pacific coast states. By D. A. Coleman and Alfred Christie and C. E. Bode. A preliminary report. 1935. 39 p. (In cooperation with Bureau of plant industry)
- Tax delinquency of rural real estate in 15 California counties, 1928-32. 1935. 11 p. (Issued by Division of agricultural finance)
- Tax delinquency of rural real estate in 46 Maine towns, 1928-33. 1935. 10 p. (Issued by Division of agricultural finance)
- Tax delinquency of rural real estate in nine North Carolina counties, 1928-33. 1935. 12 p. (Issued by Division of agricultural finance)
- Tax delinquency of rural real estate in six Florida counties, 1928-33. 1935. 11 p. (Issued by Division of agricultural finance)
- Tax delinquency of rural real estate in 27 Georgia counties, 1928-33. 1935. 13 p. (Issued by Division of agricultural finance)
- Tobacco outlook charts, for use with the Agricultural outlook for 1936. 1935. 19 p.
- Wheat and rye outlook charts, for use with the Agricultural outlook for 1936. 1935. 27 p.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
(Continued)

Bureau of Agricultural Engineering

- History of corn planters. Compiled by Lillian Church. 1935. 11 p.
(Information series no. 69) Issued by Division of mechanical equipment. Supersedes no. 53.
- History of cultivators. Compiled by Lillian Church. Revised August 1935.
9 p. (Information series no. 52) Issued by Division of mechanical equipment.
- History of grain drills. Compiled by Lillian Church. 1935. 8 p. (Information series no. 70) Issued by Division of mechanical equipment. Supersedes no. 53.
- History of the plow. Compiled by Lillian Church. Revised Oct. 1935. 16 p.
(Information series no. 48) Issued by Division of mechanical equipment.
- What drainage has accomplished. By Lewis A. Jones. 1935. 3 p. Issued by Division of drainage.

Bureau of Biological Survey

- Directions for poisoning piñon jays. Prepared in Section of food habits, Division of wildlife research. 1935. 2 p. (Wildlife research and management leaflet BS-25)
- What shall we feed our pelters? By Charles F. Bassett. 1935. 6 p. (Wildlife research and management leaflet BS-20) Issued by Section of fur resources, Division of wildlife research.

Bureau of Chemistry and Soils

- Explosive dusts. Address by David J. Price before Royal Canadian institute, convocation hall, University of Toronto, Toronto, Ontario, Dec. 14, 1935. 8 p.
- How dust explosions can occur while firemen are fighting fires. Address by David J. Price. 1935. 5 p. (Address before International association of fire fighters, Toronto, Canada, Dec. 16, 1935)
- Present status of dust explosion prevention in industrial plants. Address by David J. Price. 1935. 9 p. (Address before staff of provincial fire marshal, province of Ontario, Parliament buildings, Toronto, Ontario, Dec. 16, 1935)
- Publications relating to kelp. 1934. 3 p.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Chemistry and Soils

(Continued)

Water supplies on farms for fire department use. Address by Harry E. Roethe, at meeting of American society of agricultural engineers, Chicago, Ill., Dec. 3, 1935. 4 p. (Issued by Chemical engineering division)

Bureau of Dairy Industry:

Proving dairy sires in dairy herd-improvement associations by the lactation records of the daughters and their dams. By J. F. Kendrick. 1935. 28 p. (B.D.I.M. 623, revised) Issued by Division of dairy herd improvement investigations.

Thirty years of cow testing in the United States. Address by O. E. Reed before the Newaygo county dairy testing association, Fremont, Mich., Dec. 6, 1935. 6 p.

Extension Service

Foreign agricultural extension activities: Africa, Australia, Canada, China, Czechoslovakia, England, India, Italy, Malay states, New Zealand, Scotland, and Wales. Compiled by Extension studies and teaching section, M.C. Wilson, in charge. 1935. 18 p. (Division of cooperative extension. Extension service circular 227)

Organization and programs for farm young people. Excerpts from annual reports of state and county extension agents, 1934. Prepared by Extension studies and teaching section, M. C. Wilson, in charge. 1935. 30 p. (Extension service circular 229)

Securing technical information and personal service from the extension service. By H. H. Kildee. 1935. 10 p. Presented before the annual meeting of the American vocational association in Chicago, Ill., December 6, 1935.

Suggestive plan, extensive farm-management and accounting project with AAA farm records for 1935-36. Prepared by J. C. Galloway. 1935. 49p.

Food and Drug Administration

Labeling flavoring extracts under the Federal food and drugs act. 1935. 7 p.

Forest Service

Pulpwood resources of western Oregon and western Washington (from inventory and growth phase of forest survey) By H. J. Andrews, R. W. Cowlin, F. L. Moravets, and W. H. Meyer. 1935. 6 p. (Pacific northwest forest experiment station. Forest research notes no. 17)

Wild life handbook, 1935. v.p. (Issued by North central region)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
(Continued)

Bureau of Home Economics

Farm family living outlook charts and conference summaries for use with the Agricultural outlook for 1936. 1935. unp.

Office of Information

Like radio listeners, and radio listeners will like you. By Morse Salisbury. 1935. 2 p. (Issued by Radio service)

Bureau of Plant Industry

Bulbous bluegrass. By H. A. Schoth and H. N. Vinall. 1935. 6 p. (Issued by Division of forage crops and diseases)

Directions for growing pyrethrum. By A. F. Sievers. 1935. 2 p. (Issued by Division of drug and related plants)

Bureau of Public Roads

A national system of transportation. Radio address, Nov. 5, 1935, by Thos. H. Mac Donald. 1935. 8 p.

The right to pass - in safety! Paper presented by Thos. H. MacDonald, at 21st Annual convention of American association of state highway officials, Miami, Florida, Dec. 9, 1935. 15 p.

Soil Conservation Service

A few essential rules for preparation of manuscript. By G. A. Barnes. 1935. 4 p.

Weather Bureau

Specifications for replacement for tubes for sling psychrometers. 1935. 2 p.

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TRANSLATIONS

Following is a selected list of copies of translations recently deposited in the Library. Titles already entered in "Plant Science Literature" are not included. The translations represented in the list were, with one exception, made in the U. S. Department of Agriculture. It is hoped that copies of translations made in future in any of the offices of the Department will be sent to the Library. Copies of those made in the land grant colleges and experiment stations and other scientific institutions would also be gratefully received. See Agricultural Library Notes for November 1935 for further information in regard to the proposed cooperative plan for making scientific translations more generally available.

- Ahlberg, O. Potatisålen (*Heterodera schachtii* subsp. *rostochiensis* Woll.) [Potato-eel]. Statens Växtskyddsanst. [Sweden] Flygbl. 1. 5 p. 1933. (Translated in Div. of Nematology, Bur. of Plant Indus.)
- Brenner, C. Beitrag zur theorie der farblacke [Contribution to the theory of dye-lakes]. Helvetica Chim. Acta 3: 90-103. 1920. (Translated in Div. of Fruit and Veg., Bur. of Plant Indus.)
- Cosco, G. and Aguzzi, A. La virulenza del sangue degli animali malati di afta epizootica. Nota preventiva [The virulence of the blood of animals infected with foot-and-mouth disease]. Clin. Vet. [Milan] 39: 193-195. 1916. (Translated in Bur. of Anim. Indus.)
- Czernicki, O.F. Müller von. Het laboratorium ten dienste der rieten suikerproductie [The laboratory in the service of cane and sugar production]. Arch. Java Suikerindus. 8: 597-657. 1900. (Translated in Div. of Sugar Plants, Bur. of Plant Indus.)
- Dekker, D. De bacteriologische zuiverheid van suiker [On the purity of sugar from the bacteriological standpoint]. Arch. Suikerindus. Nederland. Indië 42 (deel 1): 341-354. 1934. (Translated in Div. of Sugar Plants, Bur. of Plant Indus.)
- Demandt, E. De resultaten der blancoproeven met 2878 POJ van oogstjaar 1931 [Results of control experiments with 2878 POJ of the harvest year 1931]. Arch. Suikerindus. Nederland. Indië 40(deel 3): 1079-1140. 1932. (Translated in Div. of Sugar Plants, Bur. of Plant Indus.)
- Eckstein. Wieder die buchen-wollschildlaus, *Cryptococcus fagi* [Again the beech woolly scale]. Deut. Forst-Ztg. 35: 194-195. 1920. (Translated in Div. of Forest Path., Bur. of Plant Indus.)
- Fischer, C. J., Spangenberg, S., and André, H. d' Los cereales y linos de pedigree en la agricultura Argentina [The cereals and flaxes of pedigree in the Argentine agriculture]. Argentine Min. Agr. Secc. Propaganda e Inform. [Circ.] 794. 15 p. 1930. (Translated in Fitotecnica, Min. Agr. Argentina)
- Frosch, P. Ein Beitrag zur kenntniss der ursache der amerikanischen schweine - seuche und ihrer beziehung zu den bacteriologisch verwandten processen [A contribution for the recognition of the American swine plague and its relation to bacteriologically allied processes]. Ztschr. Hyg. 9: 235-281. 1890. (Translated in Bur. of Anim. Indus.)
- Gabel, I. O. and Kiprianov, G. I. [The extraction of nicotine from tobacco dust by kerosene.] Ukrains'kii Khemichnii Zhur. 4(2): 11-116. 1929. (Translated in Bur. of Plant Indus.)

TRANSLATIONS
(continued)

- Ginneken, P.H.J. van, and Haan, K.de. Waarnemingen omtrent den groei van suikerbieten [Observations on the growth of sugar beets]. II. Groeikurven. [Growth-curves]. III. Variabiliteit en correlaties van suikergewicht, wortelgewicht, gehalte en bladgewicht [Variability and correlations of the weight of the sugar, the weight of the root, sugar content and the weight of the leaves]. Bergen op Zoom Inst. Suikerbiet. Meded. 2: 77-162, 215-276. 1932. (Translated in Div. of Sugar Plants, Bur. of Plant Indus.)
- Guillemet, R. Dosage de quelques centièmes de milligramme de cuivre; application au sang, à l'hémocyanine et à divers autres tissus animaux [Determination of a few hundredths of a milligram of copper, application to blood, to hemocyanin, and to various other animal tissues]. Soc. Chim. Biol. Bull. 14: 1350-1386. 1932. (Translated in Div. of Fruit and Veg., Bur. of Plant Indus.)
- Hart, P. C. Proeven omtrent topboorderbestrijding in aanplant 1932-1933 [Experiments on methods of control of the top borer in the 1932-'33 plantations]. Arch. Suikerindus. Nederland. Indië 42 (deel 2): 675-713. 1934. (Translated in Div. of Sugar Plants, Bur. of Plant Indus.)
- Hartig, R. ed. Die buchen-wolllaus, Chermes fagi Kltb. [The beech bark louse]. Munich. Forstbot. Inst. Untersuch. 1:156-162. 1880. (Translated in Div. of Forest Path., Bur. of Plant Indus.)
- Izvoshtshikov, V.P. [Studies on treatments of raw tobacco] Prefaced and edited by A.I. Smirnov. Krasnodar Vses. Nauchno. Issled. Inst. Tabachnoi i Makhor. Promyshl. (State Inst. Tobacco Inves. Bull.) no. 56. 27 p. 1929. (Translated in Div. of Tobacco Inves., Bur. of Plant Indus.)
- Jouravsky, G.J. [The content of reducing substances and their dynamics during the air conditioned fermentation of an industrial type of tobacco] Krasnodar Vses. Nauchno. Issled. Inst. Tabachnoi i Makhor. Promyshl. (State Inst. Tobacco Inves. Bull.) no.58. 28 p. 1929. (Translated in Div. of Tobacco Inves., Bur. of Plant Indus.)
- Kadiura, M. Kōchi-san shina-guri ni kansuru chōsa [Report on Chinese chestnuts produced in Kōchi Prefecture]. Okitsu Hort. Soc. Jour. (Engei no. Kenkyū) 28: 64-71. 1933. (Translated in Div. of Forest Path., Bur. of Plant Indus.)
- Khainovsky, V. Over het drogen van riet en suikerbieten [On the drying of cane and sugar-beets]. Arch. Suikerindus. Nederland. Indië 33 (deel 2): 1175-1185. 1925. (Translated in Div. of Sugar Plants, Bur. of Plant Indus.)
- Kleinschmidt, Deines, and Oelkers. Zur versäuerung und humusfrage in waldbestände. II. Vergleichende untersuchungen [The problem of acidification and humus in the forest stand. II. Comparative investigations]. Allg. Forst u. Jagd-Ztg. 109: 209-214. 1933. (Translated in the Div. of Forest Path., Bur. of Plant Indus.)
- Kraut, H. Methoden der adsorption und elution [Methods of adsorption and elution]. In Oppenheimer, C. Die fermente und ihre wirkungen, Aufl.5, 3: 445-485. 1929. (Translated in Div. of Sugar Plants, Bur. of Plant Indus.)

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- Leveré, L., Woude, C.A.A. van der, and Dillewijn, C. van. Onderzoekingen over het rijpingsverloop bij 2878 POJ. I. [Investigation on the process of ripening of 2878 POJ]. Arch. Suikerindus. Nederland, Indië. 40 (deel 2): 629-647. 1932. (Translated in Div. of Sugar Plants, Bur. of Plant Indus.)
- Mauco, G. Remarques sur le mouvement de la population en France depuis le début du XIX^e siècle [Notes on the movement of the population in France since the beginning of the nineteenth century]. Ann. Geogr. 44: 371-384. 1935. (Translated in Library, Bur. of Agr. Econ.)
- Petrik, S.M. [A study of the loss of volatile products during the treatment of tobacco]. Edited and prefaced by A.I. Smirnov. Krasnodar Vses. Nauchno. Issled. Inst. Tabachnoi i Makhor. Promyshl. (State Inst. Tobacco Inves. Bull.) no.63. 24 p. 1930. (Translated in Div. of Tobacco Inves., Bur. of Plant Indus.)
- Piatnitzki, M. [On the methods for determining malic, citric and oxalic acid in tobacco.] Krasnodar Vses. Nauchno. Issled. Inst. Tabachnoi i Makhor. Promyshl. (State Inst. Tobacco Inves. Bull.) 81: 23-44. 1931. (Translated in Div. of Tobacco Inves., Bur. of Plant Indus.)
- Scala, A.C. Micrografia de las Maderas Argentinas. El "Nogal Criollo." [Micrography of the Argentine woods. The Nogal criollo (native walnut)]. Rev. Mus. de La Plata. 34: 293-301. 1934. (Translated in Div. of Pub., Off. of Inform.)
- Schouten, A. Lohnbeizeinrichtungen in Holland [Seed treatment service in Holland]. Nachr. ü. Schädlingsbekämpfung. 9: 136-141. 1934. (Translated in Ext. Serv.)
- Soucek, J. Beziehung zwischen der anzahl der rüben auf der flacheneinheit des rübens-feldes auf ihrem gewicht [Relation between the number of beets per surface-unit of the beetfield and their weight]. Ztschr. Zuckerindus. Čechoslovak. Repub. 48: 293-300. 1924. (Translated in Div. of Sugar Plants, Bur. of Plant Indus.)
- Tanaka, Y. Kuri no tsugiki ni kansuru shiken seiseki [Experiments with grafting of chestnut trees]. Okitsu Hort. Soc. Jour. (Engei no Kenkyū) 25: 56-70. 1930. (Translated in Div. of Forest Path., Bur. of Plant Indus.)
- Vanin, S.I. and Czupov, M.E. [The calorific capacity of rotten wood.] Gosud. Nauchno-Issled. Inst. Lesnogo Khoz. Lesnoi Promyshl. [Leningrad] Trudy (Mitt. Staatsinst. Wiss. Forsch. Gebiet Forstw. u. Holzindus.) 2: 71-84. 1930. (Translated in Div. of Forest Path., Bur. of Plant Indus.)
- Verbeek, P. Eene bijdrage tot fabricatiecontrôle bij sapwinning [Contribution to factory control in respect to extraction of the juice]. Arch. Java Suikerindus. 3(1): 441-455. 1895. (Translated in Div. of Sugar Plants, Bur. of Plant Indus.)
- Zaleski, E. Anleitung zur ausführung vergleichender sortenversuche mit spezieller berücksichtigung der zuckerrübe. Dritte, völlig umgearbeitete auflage [Instructions for conducting comparative variety tests with special reference to the sugar beet. Ed.3, rev.] Buszczyński & Söhne Wiss. Abhandl. [Sci. Pub.] no.3, 30 p. 1929. (Translated in Div. of Sugar Plants, Bur. of Plant Indus.)

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NOTES ON PERIODICALS

A change has recently been made in connection with the ownership of The American Agriculturist. "Science" for November 15, 1935, contains the following note in regard to it: "The American Agriculturist, the oldest farm paper in America and for years conducted at Cornell University, henceforth will devote its profits to the betterment of agriculture and farm life. Frank E. Gannett and H. Edward Babcock, university trustees; Edward R. Eastman, former trustee, and E. Curry Weatherby, are giving outright their entire common stock control to American Agriculturist Research Foundation, Inc. This new foundation will control the paper, and its charter provides that the profits shall be used 'for improving the economic condition and promoting the social well-being and happiness of those who dwell upon the land.' Subscribers to the paper will elect three of the seven directors. Three are ex officio - the editor, Eastman; the circulation manager, Weatherby; and the advertising manager, Irving W. Ingalls. These six will elect the seventh, who will be chairman of the board. The American Agriculturist was formerly owned by Henry Morgenthau, Jr., now Secretary of the Treasury."

Another change of ownership which is of interest is in connection with The Old Farmer's Almanac. Through the death on March 1, 1935, of Carroll J. Swan, the late publisher of the Almanac, Little Brown & Co. took over publication. The Old Farmer's Almanac for 1936 is the 144th year of this famous almanac. It appears for the first time in three editions - for Boston and the New England States, for Maine, and for the Middle Atlantic States. A news item says that a copy of "The Old Farmer's Almanac hangs by a string from a nail on the kitchen wall" at the home of President Roosevelt at Hyde Park. Commenting on this in an editorial, the Boston Transcript mused as follows: "It is the true compendium of New England common sense, and those homely observations upon sound husbandry which have brightened its issues year after year since 1793 are as true today as when Washington was President. What is the Old Farmer's Almanac's recipe for a feast of fat things? With precept upon precept, line upon line; here a little and there a little, the Almanac harps today, as it always has harped, upon the dignity of conscientious labor, the fruits of thrift, the evils of disorder and waste, the importance of mastering one's job. As you travel through the country you can almost pick out those farms where the Almanac hangs by the chimney side, dog-eared with much handling. The orchards are pruned, the fences in repair, the barns are painted, there are flowers in the front-door yard. From all that we hear the estate at Hyde Park shows that fine grooming, that heaping up of harvests which inevitably follow a practical application of the principles inculcated by the Almanac." So valuable also is this almanac in providing material for the student of New England life and manners in the twentieth century that a volume of 403 pages has been devoted to it. This volume, entitled "The Old Farmer and his Almanack," by G. L. Kittredge, appeared in 1904.

It is not, perhaps, too late to note that Soil Science for July 1935 is dedicated to Dr. Jacob C. Lipman, founder of this journal and its editor for twenty years. It contains several articles in regard to Dr. Lipman and also articles regarding the history of soil science.

The Furman Farmer, organ of the American Farm Bureau Federation, appeared under a new title with the January 1936 issue (vol. 11, no. 4). It is now called The Nation's Agriculture.

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FARM BIOGRAPHIES AND AUTOBIOGRAPHIES

By Caroline B. Sherman, Associate Agricultural Economist,
Bureau of Agricultural Economics.

In the book world this is the heyday of the biography and the autobiography. Now that it is the fashion to tell the full truth in these books and make them reflect real people, readers cannot seem to have enough of them. Once upon a time such books were dry, dull, and factual; or they were over-laudatory. In either case they were not very tempting to readers. But now their authors try to show the people of whom they write as made up of strong points and weak, faults and attractions, just as our friends are made. There is danger that this popularity will be the undoing of the biographers for they are tempted to go too far in revealing the every-day or damaging traits. That gives us the "debunking" books -- interesting, but easily carried too far.

Farm biographies and autobiographies have not yielded to this temptation. All that come to mind are sincere, simple, and straightforward. Yet they are interesting. Try Hamlin Garland's series of four biographical and autobiographical books about his family and himself -- Trail Makers of the Middle Border, Son of the Middle Border, Daughter of the Middle Border, and Back Trailers from the Middle Border. In the end, to be sure, the chief Garland written about is the author himself, rather than a farmer, and he brings his family to New York City. But he always did his best work when writing of farm people and will always be known by those books. A Pulitzer Biographical Prize went to one of them and largely because of these very books the Theodore Roosevelt award once went to Hamlin Garland as a social historian.

Another son who has written a fascinating biography of his rural father is Tristram Coffin in his Portrait of an American. The father was a zestful, irrepressible man of the Maine coast, a farmer of both land and sea. He was as much interested in harvesting fish as in harvesting apples. He made farm after farm out of the Maine forests, and he built on islands that had never had a house before. When the National Arts Club offered a prize for the book of that year that would "best interpret the Soul of America", honorable mention went to this biography of a maker of farms.

These farm biographies have a way of taking prizes. We remember that the story of Grandmother Brown's One Hundred Years won the coveted Atlantic Monthly prize, offered to authors the world over for the most significant biography of any kind, of any person, in any nation, of any period. Yet it was merely the simple story of a good, long, quiet life well lived by doing each day the daily task, with eyes always on the eventual goal -- to bring up her large family on her Iowa farm, in a way that would make them useful citizens in

the world beyond her prairie horizon. Her life was said to be representative of the average life of the dauntless American farm woman.

The earlier parts of Mary Austin's autobiography Earth Horizon give us poignant chapters of her life as lived in country scenes in the Middle West and in California. The Stump Farm by Hilda Rose and the many later chapters published in the Atlantic Monthly practically constitute an autobiography of a born pioneer of the present day who not so long ago moved from a still-pioneer farm in our West to the far reaches of the Peace River territory in Canada. Perhaps the best-known of the American forerunners in the writing of such sequent autobiographical farm material, if so it may be called, was of course Donald G. Mitchell who in the 1860s, under the pen-name Ik Marvel, wrote My Farm at Edgewood and Wet Days at Edgewood besides doing much writing in the periodicals of that time.

Extreme realism is represented in farm biography by Old Jules, the recent Atlantic Monthly prize-winning story of her father by Mari Sandoz, and by the work of James Stevens and others of that character. Old Jules did a little of everything when helping to develop the Sandhills country of Nebraska but he was essentially a homesteader.

Some of our novels verge closely on farm biography and autobiography. Among these are Bromfield's The Farm and Westcott's The Grandmothers. Of Mrs. Aldrich's newest book Spring Came on Forever one reviewer says that it is probably better as an American document in social history than as a book of fiction -- that it seems to be lifted almost bodily out of the annals of some sturdy midwest family.

Russell Lord's book Men of Earth is a series of sketches of actual men and women all related to the soil. Peasants, pioneers, guardians of herds and flocks, hired hands, breeders of seed and beasts, keepers of groves and gardens, soil builders and managers, womenfolk of farm families, attendants and outriders of agriculture, merchant farmers, and modern engineers. They form a stalwart race.

Farmers, farm women, and public men whose primary interest was agriculture, are also represented among biographies in the strict sense of the word. The Dictionary of American Biography, now being issued volume by volume, includes many. Typical among them are Henry Leavitt Ellsworth, called the father of the Department of Agriculture because he obtained the first Congressional appropriation for agriculture; Frederick Watts, called the father of Pennsylvania State College; Luther Tucker, editor for many years of the Cultivator and County Gentleman; John Johnston, called the father of American tile draining, who had no means of livelihood except his farm; and Mary Mayo, for whom is named the Woman's Building at the Michigan State Agricultural College.

IOWA STATE COLLEGE LIBRARY
Charles H. Brown, Librarian

[The following extracts are from a longer article by Mr. Charles H. Brown, Librarian, Iowa State College, which appeared on pages 87-92 of a mimeographed publication of the Iowa State College entitled "Twenty-year Development Program. Part I. September 1935." The complete portion relating to the library may later be issued separately in mimeographed form.

Introduction

"The use of books in university libraries has increased enormously during the last fifteen years. Members of the faculty have increased their assignments of investigations which require greater use of the library. There has been also a very great increase in the use of books for research. The increase in Iowa State College has been far more than in most institutions. The number of books lent for home use in 1921-22 was 22,000 -- in 1934-35, about 120,000, an increase of over 500 per cent. Even though this use be not duplicated in the next fifteen years, nevertheless it is believed that the trend of the use of books by faculty and students will continue to show some increase. As enrollment increases, there will be further additional increases in the use of the library...

Comparative Status of Library

The library of Iowa State College, which at present (June 1935) consists of 230,000 volumes chiefly in the fields of the pure and applied sciences, contains outstanding collections on certain subjects. A comparison of the periodical holdings of American libraries, as shown by the Union list of serials, indicates that Iowa State College has the most complete serial collection of any library in the United States in the field of veterinary medicine; that its collections in the field of chemistry place the library among the first eight in the United States; in botany, among the first ten; in horticulture, among the first ten; in ecology, among the first fifteen. Detailed figures are on file in the library.

The exceptional collections in special fields have been made possible by the fact that Iowa State College Library is rigidly confining its purchasing of research publications to certain definite fields which it is able to cover fairly exhaustively. It is coordinating its book purchasing with its sister institutions, especially the State University of Iowa, in order to avoid unnecessary duplication in this region. In the specialized fields included in the activities of the graduate college the book collections of Iowa State College are probably stronger today than are those of any other institution between the Mississippi and the Pacific Coast states.

Services

The library is far more than a local library serving the needs of its faculty and students... [It] is at present of service to many scholars not connected with the college. Not only has the library been visited and used by research workers from other institutions, some of whom travelled from a state

IOWA STATE COLLEGE LIBRARY

Services (continued)

as far distant as Colorado (800 miles), but each year the library lends upon request rare volumes from its collections to more than a hundred libraries, especially in the midwest. During 1933-34, in spite of some restrictions caused by storage of books, approximately 400 volumes, mainly out-of-print volumes, were lent to over 78 university and college libraries... The number of volumes lent as well as the number of borrowing libraries is increasing annually at a rapid rate. This service appears to be only in its infancy.... The out-of-town loans of Iowa State College have not been confined to universities and colleges. Books have been requested by, and supplied to, a number of public libraries in the state...

In addition, the College has maintained a book reviewing program over the radio for the last eight years, in the hope of stimulating and increasing the use of books by the general public in this section of the mid-west. Since so many of the listeners had no library facilities except for the loan of small collections from the State Library Commission, which of necessity could not include recent publications, the College Library in 1930, after many requests of listeners, established a Radio book club. Popular books are lent for a week at 15 cents each. In the five years of the club's existence it has lent over 24,917 volumes, the highest number being reached during 1934 when over 5800 volumes were mailed. The College has been informed by librarians and library trustees that its radio programs have been more influential in stimulating reading and the use of libraries in Iowa during the last four years than any other agency.

Library Objectives

1. To supply the books requested promptly to each patron, whether student or faculty member.
2. To provide each faculty member with the bibliographic material needed in the research and in his instructional work.
3. To give assistance as necessary to each patron in order to enable him to find needed material through the use of the card catalog or various reference books.
4. To develop in each student and faculty member the ability to use the card catalog and the more important books of reference independently and effectively.
5. To aid in the attainment of educational objectives by showing each student the value there is to him in the formation of the habit of reading; by informing each faculty member of the assistance the library can render in instructional work; and by encouraging general and specialized reading in every way possible.
6. To provide comfortable rooms for reading and study.
7. To assist public libraries of the state in supplying exceptional books to citizens of Iowa.
8. To aid in the development of libraries in general and college libraries in particular throughout the United States and especially in Iowa.

IOWA STATE COLLEGE LIBRARY
(continued)

Means of Obtaining Objectives

1. Maintenance of collections. The table below gives the allotment by the college for the purchase of binding, periodicals, and books for the last ten years. The appropriations for 1934-35 are about 18 per cent less than in 1932-33, the peak year. The difficulty in maintaining the book collection with the funds available is accentuated by the depreciated currency of the United States. Foreign publications from most countries cost 50 per cent more than in 1932-33. The forced cancellation of periodicals and the discontinuance of the purchase of foreign books have interfered with the service and caused some complaints by research workers. As the appropriations are increased and as currency becomes stabilized, it is hoped that the library can resume purchases on the scale existing in earlier years.

1925-26	\$43,217	1930-31	\$53,214
1926-27	51,899	1931-32	51,405
1927-28	49,187	1932-33	59,589
1928-29	54,456	1933-34	48,881
1929-30	53,304	1934-35	48,881

The Science Museum of London estimates that 15,000 scientific periodicals are published each year, of which they have 9,000. Iowa State College receives 3,500. In view of the increasing number of scientific books and periodicals published each year, obviously no one library can expect to cover the entire scientific field. Leading libraries of the midwest should reach an understanding in regard to the special fields in which each library expects to collect exhaustively. If such an understanding is reached each library can promptly obtain through inter-library loans the rare and exceptional material not frequently used but badly needed at times. Such an understanding will undoubtedly be adopted during the next few years. Indeed the State University of Iowa and the Iowa State College have succeeded within the last few years in coordinating many of their purchases.

2. Building. The usefulness of the collections and the development of library service are at present greatly hindered by an inadequate building. 25,000 volumes are now stored... and others are packed in boxes in the library basement, thus handicapping library service. This condition is steadily growing worse. It is impossible to supply books promptly or to arrange for satisfactory use in the stacks.

There are needed, also, additional rooms for student use. More books should be displayed, more facilities should be offered for assistance to students in the use of special collections...

A number of plans for an extension to the library have been prepared... One of these plans - the latest one developed - has seemed to meet with general approval. The plan provides not only immediate additional stack room but also additional study and work rooms which are beginning to be badly needed. If the proposed wing can be built in the near future, one hindrance to prompt service will be removed.

IOWA STATE COLLEGE LIBRARY
(continued)

3. Personnel. If members of the staff are to aid students in obtaining information from books, the staff themselves must know the library and the books within it. In the opinion of the librarian, the ideal library in the future will give much more assistance to students and faculty members in the use of books. The mass of printed material is becoming so great that even specialists have difficulty in keeping up with the literature of their own subjects. During the next twenty years it would be advisable to have in the library some assistants trained both in subject matter and in library routine. The Library of the Science Museum in London has developed by the use of such assistants a service which is unusually valuable. Other specialized libraries will probably follow this example to an increasing extent during the next twenty years. Here we have been experimenting with the assignment of special assistants to aid faculty members in special fields of learning. One assistant has familiarized herself with veterinary literature and serves to some extent as an expert in the location of articles on veterinary and biological subjects. Another has served to some extent similarly in the field of chemistry. Obviously, an assistant who has only a special field to cover can be much more expert in the use of books in this field than can an assistant who must cover all fields. During the next twenty years this program should be greatly extended...

If books are to be used, they must be carefully indexed, classified, and arranged. If inaccurate index or ill-judged headings are used in the card catalog the books are practically lost to users. The reclassification of the library started in 1925. It is about half completed although little or no progress has been made during 1933-34...

50,000 cards are at present prepared each year for insertion in the card catalog. The number tends to increase in order to include monographs published in series and difficult to locate unless indexed in the card catalog. The preparation of special card indexes, such as an index to Experiment Station Bulletins, should be undertaken. At present, work is proceeding on a Corn index through the assignment of Professor Cunningham to this duty.

Especially during the present lean year does the question arise whether the library is justified in giving the time it does to work outside of Ames. Daily radio programs, the Radio Book Club, service on national and state committees, all require time. Members of this staff have been active in library movements; they have influenced several Ames students to attend library schools, and these students are now holding responsible positions. Although in periods of pressure the time necessitated by these outside activities is reluctantly spared, nevertheless the possibilities of real accomplishment are so great that any long time survey which attempts to evaluate past activities and to note future trends must encourage the continuation of national and state activities on the part of the library staff"...

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CURTIS FLETCHER MARBUT

List of Publications

[Dr. Curtis Fletcher Marbut, for many years Chief of the Soil Survey of the U. S. Department of Agriculture, died in Harbin, Manchuria, on August 25, 1935, in his 73d year. Although he had passed the age of retirement, he had been retained by the Government for two additional years in order to continue exceptionally important research on the classification of soils in this and other countries. For twenty-five years he had supervision of the soil survey work of the Department which has mapped about half of the agricultural area of the United States. The first complete inventory of the soil resources of this country was recently completed by Dr. Marbut and published by the Department last year as part 3 of the Atlas of American Agriculture. On account of the importance of Dr. Marbut's work, it was thought that a list of his publications would be of interest. In the preparation of this list, the Library had the assistance of the Bureau of Chemistry and Soils. The effort has been to make the list complete but possibly a number of items may have been overlooked. Additions will be gratefully received.]

1895. The geographic development of Crowley's Ridge [Missouri-Arkansas]
Boston Soc. Nat. Hist. Proc. 26:479-488.

1896. Physical features of Missouri. Missouri Geol. Survey [Pub.]
10:11-109. map.

(with N. S. Shaler) The glacial brick clays of Rhode Island and
southeastern Massachusetts. U.S.Geol. Survey Ann.Rpt. 17, pt.1:
951-1004.

(with J. B. Woodworth) The Queen's River moraine in Rhode Island.
Journ. Geol. 4:691-703.

1898. Reports on areal geology; geological description of the Clinton
sheet;...Calhoun sheet;...Lexington sheet; geology of the Richmond
quadrangle, including portions of Ray and Carroll counties;
geology of the Huntersville quadrangle, including portions of
Randolph, Howard and Charlton counties. Maine Geol. Survey.
12, pt.2, Sheet reports no.6-10: 15-371. maps.

Cote Sans Dessein [Mo.] and Grand Tower [Ill.] Amer. Geologist.
21:86-90.

1901. The determined distribution of coals in Missouri. Marx, C. W.,
and Schweitzer, Paul. The heating values and proximate analyses
of Missouri coals. 1901. p. 8-10.

----- Same [Reprinted] Univ. Missouri Bul. Eng. Expt. Sta.
ser. v.2,no.1:11-16.

CURTIS FLETCHER MARBUT
(continued)

1902. The evolution of the northern part of the lowlands of southeastern Missouri. Missouri Univ. Studies. 1,no.3. 63 p. maps.
1904. Geology and physiography [of Missouri] State of Missouri [Louisiana purchase exposition, St. Louis]: 63-70. map. Columbia, Mo.
1905. Physiography in the University. Journ. Geogr. 4:23-30. 8th Internatl. Geogr. Cong., Rept.: 997-1004
1908. The geology of Morgan county. Missouri Bur. Geol. and Mines. (2) 7. 97 p. map.
1910. Soils of the Ozark region; a preliminary report on the general character of the soils and the agriculture of the Missouri Ozarks. Missouri Agr. Expt. Sta. Research Bul. 3:151-273. map.
1911. See 1901.
- 1913 (and others) Soils of the United States. U. S. Dept. Agr. Bur. Soils. Bul. 96. 791 p.
- Geology. Missouri Univ. Bul. Sci. Ser. 1:125-146.
1914. Soil reconnoissance of the Ozark region of Missouri and Kansas. U. S. Dept. Agr. Bur. Soils. Field Operations. 13 (1911): 1727-1873, map no.41.
1916. Report of the Committee on soil classification. Jour. Am. Soc. Agron. 8: 387-390.
1921. The contribution of soil surveys to soil science. Soc. Prom. Agr. Sci. Proc. 40th-41st, 1919-20: 116-142.
- Soil reconnoissance of the northern Great Plains. Amer. Assoc. Soil Survey Workers. Bul. 1:33.
Mimeographed.
1922. Soil classification. Amer. Assoc. Soil Survey Workers. Bul.3: 24-32.
map.
Mimeographed.
1923. Soils of the Great Plains. Assoc. Amer. Geographers. Ann. 13:41-66.
- (with H. L. Shantz) The vegetation and soils of Africa. 263 p. illus., plates. Amer. Geogr. Soc. Research Ser. 13.
Accompanied by 2 folded maps in case.

CURTIS FLETCHER MARBUT
(continued)

1924. United States of America. 1) The United States soil survey, by C. F. Marbut... 2) Methods of identification and mapping soils in use in the state of Missouri, by M. F. Miller... 3) Soil survey in Iowa, by P. E. Brown... 4) The cartography of soils of Illinois, by R. S. Smith.

Reprint from: Margoci, G., and Opresco, A. État de l'étude et de la cartographie des sols dans divers pays. Bucarest, 1924, p. 215-231. Dr. Marbut's paper occupies p. 215-224.

1925. Soil [at the Northern Great Plains field station]. U.S. Dept. Agr. Bul. 1301: 5-6.

(and C. B. Manifold) The topography of the Amazon Valley. Geogr. Rev. 15: 617-642. illus., fold. map.

1926. (and C. B. Manifold) The soils of the Amazon Basin in relation to agricultural possibilities. Geogr. Rev. 16: 414-442. illus.

1927. Geography at the First International congress of soil science. Geogr. Rev. 17: 661-665.

The transcontinental excursion under the auspices of the American soil survey association. Descriptions, discussions and interpretations of soils and soil relationships along the route of the excursion. 178 p. [Washington].

Mimeographed.

Prepared for the First International congress of soil science.

(translator) The great soil groups of the world and their development, by Prof. Dr. K.D. Gliko. Transl. from the German. Ann Arbor, Mich.

1928. Outline of a scheme for the study of soil profiles. 1st Internatl. Cong. Soil Sci., 1927. 1: 248-259.

Outline of a scheme for the differentiation of soils into mapping units on a uniform basis for all countries. 1st Internatl. Cong. Soil Sci., 1927. 1: 259-268.

A scheme for soil classification. 1st Internatl. Cong. Soil Sci., 1927. 4: 1-31.

The excursion. 1st Internatl. Cong. Soil Sci., 1927. Proc. 5: 40-88.

Fifth commission [1st International congress of soil science]
Classification, nomenclature, and mapping of soils. Soil Science. 25: 51-80. illus.

Classification, nomenclature, and mapping of soils; the American point of view. Soil Science. 25: 61-70. 1928. illus.

CURTIS FLETCHER MARBUT
(continued)

1928. Soil classification. Bennett, H. H., and Allison, R. V. The soils of Cuba, p. 341-354.

Soils, their genesis, classification and development; a course of lectures given in the Graduate school of the U.S. Dept. of agriculture. 30 pts. [Washington]
Mimeographed.

1929. Survey conducted to classify soil types throughout nation.
U. S. Daily. 4:2914. Dec.28, 1929.

Soils are studied to provide guide in increasing fertility.
U.S.Daily. 4: 2930. Dec. 30, 1929.

1931. Russia and the United States in the world's wheat market. Geogr. Rev. 21: 1-21. illus.

Agriculture in the United States and Russia. A comparative study of natural conditions. Geogr. Rev. 21: 598-612. illus.

1932. Soil surveys and agriculture. Military Engineer. 24: 388-389. illus.

Relation of soil type to the environment. 2d Internatl. Cong. Soil Science, 1930. Proc. 5: 1-6.

Morphology of laterites. 2d Internatl. Cong. Soil Science, 1930. 5: 72-80.

1933. Soil classification. 4th Cong. Internatl. Soc. Sugar Cane Technologists, San Juan, Puerto Rico. Proc.: 43-49.

1934. The work of Commission V (Soil genesis, morphology and cartography); Soil research. 4: 139-146.

Soils. Encyclopaedia of the Social Sciences. 14: 250-254.

1935. Land Classification. 3d Internatl. Cong. Soil Sci., 1935. Proc. 1: 290-292.

1935. Soils of the United States. U.S. Dept. Agr. Atlas of American agriculture. pt.3. 98 p. maps.

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THE BIBLIOFILM SERVICE

A review of its past work and an announcement regarding
its future plans and arrangements.

By Claribel R. Barnett

The Bibliofilm Service has been operating in the Library of the U. S. Department of Agriculture a little more than a year. In view of changes which have recently been made in its operation, it seems a fitting time to review its development up to January, 1936 and to explain the arrangements and plans for the future.

The Service was inaugurated with the assistance of Dr. Atherton Seidell, of the National Institute of Health, and Dr. R. H. Draeger, of the Medical Department, U. S. Navy, as an outcome of a luncheon at the Cosmos Club November 5, 1934 to which Mr. Watson Davis, director of Science Service, had invited about fifteen persons known by him to be interested in the subject of film copying of documents. (For further details see Science, February 15, 1935, p. 174-176, Film Strip Copies of Scientific Publications, by Atherton Seidell). At this luncheon, Dr. Draeger had told of a camera he had built and had exhibited film rolls of books made with it. A few days later at the suggestion of Dr. Seidell and with the cooperation of Dr. Draeger arrangements were made to install Dr. Draeger's camera in the U. S. Department of Agriculture Library to make experiments upon copying articles in bound volumes and journals for use by out-of-town governmental and private institutions. The camera was moved from Dr. Draeger's apartment on November 12 and installed in a small room (11'4" x 10') in the Library (Room 1041). An assistant in the Library, Mr. Charles E. Wright, was then detailed from the Catalogue Division to look after the new work.

In the beginning it was realized that the new service should have a special name and Bibliofilm Service was decided upon. It may be said to have been inaugurated on November 15, 1934 for the first film copies were sent out on that date. It was started on enthusiasm, cooperation and hope, for no special funds for the service were available. The films and necessary chemicals and equipment were furnished by Dr. Seidell and Dr. Draeger. The Library supplied the space for carrying on the work and one Library assistant.

In one particular at least this new service differed from the micro-copying undertakings of other libraries in that its main purpose was (1) to decrease inter-library loans of books by supplying direct to individuals copies of scientific articles, particularly those contained in periodicals, and (2) to extend the use of the resources of the Library to isolated scientific workers without adequate library facilities.

In the beginning, before sending out any films, letters were written to a few libraries, which had requested inter-library loans, to find out whether they would be willing to accept the films in place of having the books sent to them. The responses received were gratifying and sufficient to justify the continuance of the experiment. In some references which have been made to its service, the erroneous impression has been given that the Library discontinued entirely its inter-library loan service, as far as the sending of books was concerned, at the time its Bibliofilm Service was inaugurated and that thereafter it was only willing to send microfilms. While it is true that the Library has encouraged the use of microfilms of publications in lieu of lending the publications themselves,

THE BIBLIOFILM SERVICE (continued)

it has not been its policy to refuse to lend books when libraries were not satisfied to use the microfilms, always provided, of course, that the books wanted were in the category of those that could be spared. The Library would naturally much prefer to send the microfilms rather than the volumes, for it is obvious that the loan of a periodical or a book to one reader makes it inaccessible to another. Other reasons for preferring to send microfilms are the risk of loss of volumes in transit, and the time required in connection with inter-library loans for charging and discharging the books, for keeping time records and for sending out overdue notices. Finally, the fact that the majority of the requests for loans received by this Library were for short periodical articles made it seem particularly desirable to develop some method for sending the few pages desired from a volume instead of having to send the whole volume. Many articles requested are less than five pages in length. Previous to the use of microfilms, it had been a practice of the Library to send some photostat copies in response to official requests. In a number of instances also, it had lent volumes to local photostat firms for copying of articles wanted in connection with unofficial requests. The Library also maintained a large collection of "reprints" for use in inter-library loans. When an inter-library loan request for a particular article in a journal was received, a part of the procedure was to see whether a "reprint" of the article was available. With the developments in the use of microfilms, the value of the "reprint" collection in connection with inter-library loans is considerably lessened. In spite, however, of the advantages to the Library in sending microfilms, it has not felt justified in cutting off its inter-library loan service by limiting it to the furnishing of such copies, inasmuch as these microfilms are greatly reduced in size and cannot of course be used without some convenient means for reading them.

Use of Microfilms

It has been rather surprising that so many users of the Library have been content with microfilms during the past year in spite of the fact that the problem of satisfactory equipment at a reasonable price for use in reading the films has been so slow in being solved. Some who have used the films have had local photographers make enlarged prints, or have themselves made them. Some have used binocular microscopes and a number have also used the magnifier which a prominent maker of scientific instruments put on the market during the past year. A few have been able to use the cheap projectors on the market. Since, however, these cheap projectors were designed especially for projecting picture films on screens, certain changes were necessary in using them for reading microfilms of publications in order to prevent the films from buckling from the heat of the light when held in one place sufficiently long for reading a page.

The total number of libraries, institutions and individuals which have made use of the microfilms since November, 1934, in lieu of borrowing books, were 223, divided as follows: (1) field workers of the U. S.

THE BIBLIOFILM SERVICE (continued)

Department of Agriculture, 20; (2) land grant colleges and experiment stations, 40; (3) other colleges, universities and organizations, 63; (4) commercial firms, 54; (5) individuals not connected with institutions, 26; (6) foreign organizations and individuals, 20. In classes 2, 3 and 4, the institution or organization was in each instance counted only once whereas several persons from an institution may have used the microfilms. For example, the Library of the Boyce Thompson Institute for Plant Research has been counted as only one user although at least two or three scientific workers from that institute have used the microfilms. (This library is using a cheap projector costing only \$10.00. The necessary changes in the projector were made by the photographer at the institute). With the foregoing explanation, it will be seen, therefore, that the total number of persons who have used microfilms for inter-library loan purposes is probably twice the figure of 223 given above, and may be nearly 500.

The total number of microfilms of articles supplied during the thirteen and a half months from the beginning of the service to the present time, in lieu of sending the volumes, was 1815, comprising in all 36,160 pages. For the same period the total number of books lent to libraries outside of the city was 1610, which, added to the 1815 microfilms, totaled 3415 volumes made accessible outside of the city. It will be seen that up to the present time, at least, the sending of microfilms has only supplemented the inter-library loan service of the Library rather than supplanted it. It is, however, conceivable that at some time in the future, when satisfactory equipment for reading microfilms is generally available at a reasonable cost, research libraries in general may, with few exceptions, be able to substitute entirely microfilms of periodical articles in place of sending volumes. It is not likely that microfilms of whole books will be thus supplied in lieu of inter-library loans but with the improvement of the cameras and improvement of the equipment for making enlarged prints, it is probable that projects for the making of microfilms of manuscripts and out-of-print material to supplement library resources will rapidly increase. In the Library of the U. S. Department of Agriculture this use of microfilms has only begun in a very small way.

Scope

The Bibliofilm Service has had no special list of periodicals or other publications from which copies of articles were made. The copies of articles from any periodicals in the Library of the Department are supplied if the periodicals are not copyrighted. For the copying of copyrighted articles, special arrangements are of course required. A printed List of serials currently received by the Library, which was issued in 1922, has been used to give an idea of the resources of the Library since, with a few exceptions, the serials in this list are still being received, unless they have ceased publication. The Library now has in preparation a mimeographed up-to-date list of all periodicals now being received. This list, it is hoped, will be available within a few months. With few exceptions, the making of microfilms has been confined to publications in the Library of the U. S. Department of Agriculture. One exception, which was a large undertaking, was the copying of certain records in the State Department comprising in all about 32,000 pages

THE BIBLIOFILM SERVICE
(Continued)

Laboratory and Equipment

During the first three months of the operation of the Bibliofilm Service, the films were developed in the photographic laboratory of the Division of Illustrations, Office of Information, permission for the use of the laboratory having been granted through the courtesy of Mr. J. H. Stevenson, Chief of the Division of Illustrations. With the expansion of the work, however, it became necessary for the Bibliofilm Service to have its own laboratory. Permission was therefore obtained to fit up as a laboratory a small room in the basement which had formerly been used by the cleaning force. The very large sink which was in the room it was possible to use as a tank for developing the microfilms. This make-shift arrangement continued until August, when it was possible to assign to the Bibliofilm Service room 1448 formerly occupied by the Office of Biological Abstracts which they no longer needed. The fitting up of this new laboratory began the middle of August and was completed in October. The laboratory now consists of a dark room, tanks for developing, fixing and washing the film and a small dust proof room containing a motor driven drum for drying the film. The temperature of the liquids in the tanks and of the air of the drying room is mechanically controlled so that the film is processed all the way through at 65°.

The funds for equipping the laboratory were entirely furnished by the Bibliofilm Service and Science Service and the work was done under the direction of Dr. R. H. Draeger. As its part in the cooperative undertaking, the U. S. Department of Agriculture Library contributed the time of Mr. C. E. Wright for four or five months in addition to the space for the laboratory.

In the beginning it was fully realized that progress in the use of microfilm copies would be dependent upon satisfactory equipment for reading the films. Therefore in the first three or four months after the inauguration of the Bibliofilm Service special efforts were made by Dr. Seidell, Dr. Draeger and Mr. Watson Davis to encourage commercial firms to furnish the mechanisms for micro-photographic duplication. In March, 1935 one commercial firm supplied a model of an inexpensive magnifier, which later in the summer was placed on the market. In April the same firm also produced a model of a projector but this has not yet been made commercially available. In spite of the interest shown on the part of two or three commercial firms, progress was slow and rather discouraging.

By mid-summer it was realized that other efforts to obtain the equipment should be made. Moreover, in the interests of science it was most desirable to have the equipment produced on a non-commercial basis. It was, therefore, cause for much gratification when Science Service was successful in obtaining from the Chemical Foundation in July a grant of \$15,000 for the development of mechanisms needed in the film copying projects and Dr. Draeger was granted a year's extension by the Navy Department for cooperation in the project. He was also given the necessary technical and clerical assistants. With these additional funds and assistants it has been possible in the past three months to make important improvements in the Draeger camera. In addition, a model of a superior projector has been completed and improved equipment for making enlarged prints from the film copies will soon be ready for use.

THE BIBLIOFILM SERVICE
(continued)

Cooperative Arrangement with Science Service

From the foregoing account of the activities of the Bibliofilm Service it will be seen that during the past six months special attention has been paid to the development of mechanisms for micro-photographic work. This fact and the need for making the use of these unusual facilities as elastic as possible so that they may be available for the work of Government offices other than the Department of Agriculture and for other research institutions, made it desirable for the Department of Agriculture to work out a definite cooperative arrangement with Science Service in connection with the Bibliofilm Service.

Under the cooperative arrangement, which became effective January 1, 1936, Science Service has taken over the Bibliofilm Service, including the business management, all the routine photographic work, and the experimental work of developing mechanisms. Arrangements are being made by Science Service for the production of the mechanisms separately or as completed photographic laboratories so that libraries and other institutions can be supplied. Price quotations are not yet available but if those interested will communicate with Science Service they will be referred to the agency to be established. For the balance of this fiscal year, if not longer, the photographic laboratory will continue to be located in the U. S. Department of Agriculture. This constitutes in part the contribution of the Department of Agriculture to the cooperative undertaking. In connection with the film copies supplied by the Bibliofilm Service, the Department of Agriculture Library will continue also to gather and verify material wanted from its own collections and will do other bibliographical work in its own field. As the work increases the Bibliofilm Service may wish to enlarge its laboratory and may therefore need to have one in some other location. The U. S. Department of Agriculture Library may also, in time, need the present laboratory for the exclusive use of the Department.

It remains to explain in more detail how this new cooperative agreement with Science Service will in general affect the procedure in supplying microfilm copies of publications in response to definite requests. It can best be made clear perhaps by pointing out that the former work of the Bibliofilm Service has been divided. It formerly both looked up the references and supplied the microfilm copies, but in future its services in supplying microfilm copies will be similar to those of any photostat firm; it will act merely as the agent of the institution or individual ordering the microfilm copies. The Bibliofilm Service will not undertake bibliographical researches and can not undertake to trace or complete references. The U. S. Department of Agriculture Library, on the other hand, will continue, as in the past, to perform this service in connection with the literature of its particular field as already explained. All bibliographical and reference questions in its field should be addressed to the U. S. Department of Agriculture Library. Orders for microfilm copies should be addressed to the Bibliofilm Service, Care of the U. S. Department of Agriculture Library.

THE BIBLIOFILM SERVICE
(continued)

When the cooperative arrangement with Science Service went into effect, a slight change was made in the price of the microfilms. The rates now in force are as follows: Per page of material copied - microfilm, one cent; photo prints (not available until March, 1936), 5 cents; service charge for each item copied, 10 cents; minimum orders accepted, 25 cents. Special prices are quoted by the Bibliofilm Service on large orders for copying.

In sending in orders, the Bibliofilm Service requests that each item be listed on a separate sheet of paper, preferably on the order blank which it supplies on request. The name and address on each order sheet is also desired.

In all the work done by the Bibliofilm Service an effort is made to furnish it as economically as possible. It is therefore necessary to minimize correspondence. Circulars in regard to the Bibliofilm Service and in regard to the mechanisms which it has in progress can be obtained from Science Service, 2101 Constitution Avenue, Washington, D. C.

SOME RECENT REFERENCES ON MICROPHOTOGRAPHIC REPRODUCTION*

Bendikson, L. Some phototechnical methods for the preservation and restoration of the contents of documents. Library Journal, Oct. 1, 1935, vol. 60, no. 17, p. 745-746.

Paper read at the Jubilee Conference, International Institute of Bibliography, held in Copenhagen, Sept. 9-14, 1935.

[Davis, Watson]. Microphotographic duplication in the service of intellectual documentation, libraries and publication. Science Service, Document 140. 2 pages. Dec. 26, 1935. [Revised edition of Document 117, issued Nov. 30, 1935]

Davis, Watson. Plans of the Documentation Division of Science Service. Science Service Document 72. 8 p. Aug. 16, 1935.

Metcalf, K. D. Microcopying on photographic film. Library Journal, Jan. 1, 1936, vol. 61, no. 1, p. 10-15.

Paper presented before the annual conference of Eastern College Librarians, Nov. 30, 1935.

Raney, M. L. Films in the reproduction of library materials. 8 p. Mimeographed.

A paper read at the Conference of University and reference librarians, Chicago, Dec. 30, 1935.

Seidell, Atherton. Filmstats, a new means for the advancement of science. Journal of Chemical Education, Sept. 1935, vol. 12, no. 9, p. 415-417.

Shaw, R. R. An inexpensive projector. Library Journal, Jan. 1, 1936, vol. 61, no. 1, p. 99.

Zeitlin, Jake, and Fanning, C. S. The camera finds new uses. Review of Reviews, vol. 92, no. 4, Oct. 1935, p. 32-33, 56-57.

*This supplements the list in Agricultural Library Notes, June 1935, vol. 9, no. 6, p. 243.

LCST BOOKS

The following books cannot be found. It will be appreciated if anyone having information in regard to them will notify the Loan Desk of the Department Library.

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ERRATUM

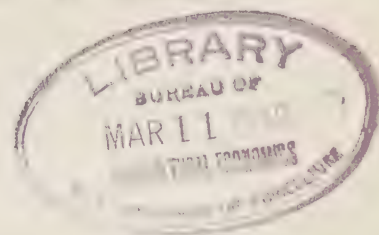
The following correction should be made in Agricultural Library Notes, v. 10, no. 11, November 1935, page 473:

Journal of Biological Chemistry should read Journal
of Biological Education.

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MEETING OF THE AGRICULTURAL LIBRARIES SECTION
of the American Library Association

The meeting of the Agricultural Libraries Section at Richmond, Virginia, on May 10, in connection with the A. L. A. conference, is being planned so as to give time at the close for informal discussion of various subjects, by groups. Miss Grace Barnes, Chairman of the Section, will be glad to be informed at an early date in regard to any subjects those attending the conference would like to have discussed. Her address is: University of Maryland, College Park, Maryland.

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CHANGES IN AGR PRINTED CARDS

Beginning January 1, 1936, the cards printed in the Agr series for publications of the bureaus and other major subdivisions of the U. S. Department of Agriculture will have the bureau as the second item in the heading instead of Dept. of Agriculture; that is, the ordinary L. C. practice will hereafter be followed by the Library of the Department of Agriculture. All cards reprinted after January 1 are to have the usual L. C. form of heading and the reprinting will proceed as fast as practicable without interfering with more important printing and reprinting.

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LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING JANUARY 1936 *

California

JONES, H. A., and others. The cauliflower industry of California. (Calif. Agr. Col. Ext. Circ. 93.) Berkeley, 1935.

Georgia

TREANOR, K. Outlook for Georgia agriculture in 1936. (Ga. Agr. Col. Ext. Bul. 455.) Athens, 1935.

Idaho

EASTMAN, M. First clothing bulletin (revised). (Idaho Univ. Agr. Col. Ext. Bul. 74, rev.) Moscow, 1935.
EASTMAN, M. Second clothing bulletin (revised). (Idaho Univ. Agr. Col. Ext. Bul. 76, rev.) Moscow, 1935.
1936 agricultural outlook for Idaho. (Idaho Agr. Situation Dec. 7, 1935.) Mimeographed.

Illinois

Agricultural outlook for Illinois, 1936. (Ill. Agr. Col. Agr. Expt. Sta. and Ext. Serv. Circ. 422.) Urbana, 1935.

Kansas

KELLY, E. G., and LEKER, E. H. Controlling garden pests. (Kans. State Col. Ext. Bul. 77.) Manhattan, 1935.
KLOEFFLER, R. G., and others. A low cost electrical system for farms. (Kans. State Col. Ext. Circ. 117.) Manhattan, 1935.

Louisiana

HINDS, W. E. Peach tree borer control in Louisiana. (La. Agr. Col. Ext. Circ. 93, 2d rev.) Baton Rouge, 1935.
FRANCIONI, J. B., jr. Home canning of meats. (La. Agr. Col. Ext. Circ. 118, 2d rev.) Baton Rouge, 1935.
FRANCIONI, J. B., jr. Pork on the farm, killing and curing. (La. Agr. Col. Ext. Circ. 119, rev.) Baton Rouge, 1935.
STURGIS, M. B., and WASSON, R. A. Inoculation of legumes. (La. Agr. Col. Ext. Circ. 142, rev.) Baton Rouge, 1935.
IACROIX, M. M., and FRANCIONI, J. B., jr. Care and management of hogs in Louisiana. (La. Agr. Col. Ext. Circ. 144, rev.) Baton Rouge, 1935.
FERGUSON, B. L. Roses for Louisiana. (La. Agr. Col. Ext. The Well-Gardened Home v. 1, no. 13.) Baton Rouge, 1935.

* Prepared in Office of Experiment Stations Library.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING JANUARY 1936
(Continued)

Maine

- Vegetable gardening for 4-H club members. (Maine Agr. Col. Ext. Bul. 179, rev.) Orono, 1935.
WOOD, T. E. Canning and preserving. (Maine Agr. Col. Ext. Bul. 186, rev.) Orono, 1935.
GARDNER, A. K., and others. Maine potatoes. (Maine Agr. Col. Ext. Bul. 201, rev.) Orono, 1935.

Michigan

- DIBBLE, C. B. Grasshopper control pays. (Mich. State Col. Ext. Bul. 19, rev.) East Lansing, 1935.

Minnesota

- HOBART, I. Use home-grown cereals, wheat - oats - corn. (Minn. Univ. Agr. Ext. Circ. 51.) University Farm, St. Paul, 1935.
CHILD, A. M. Using meat sundries and preserving meats in lard. (Minn. Univ. Agr. Ext. Circ. 52.) University Farm, St. Paul, 1935.
Agricultural outlook and farm family living outlook in Minnesota for 1936. (Minn. Univ. Agr. Ext. Pamphlet 36.) University Farm, St. Paul, 1935.
TORRANCE, J. B. Better practices in servicing farm tractors. (Minn. Univ. Agr. Ext. Agr. Engin. News Letter no. 46. Jan. 15, 1936.) University Farm, St. Paul.

Missouri

- EWING, T. A., and FOSTER, M. T. Castrating and docking lambs. (Mo. Agr. Col. Ext. Circ. 331.) Columbia, 1935.
ETHERIDGE, W. C. The good use of farm land in Missouri. (Mo. Agr. Col. Ext. Circ. 332.) Columbia, 1935.
FLETCHER, P., and others. The 4-H farm forestry club. I. Forest appreciation. (Mo. Agr. Col. Ext. 4-H Club Circ. 45.) Columbia, 1935.

Montana

- Stephl, O. E. The prairie dog in Montana. (Mont. State Col. Ext. [Bul.] no. 83, rev.) Bozeman, 1935.
BUNTING, P., and Extension Service Specialists. Home economics judging in Montana 4-H clubs. (Mont. State Col. Ext. Bul. 121, rev.) Bozeman, 1935.

New Jersey

- KELLER, H., jr., and others. The 1936 agricultural outlook for New Jersey farmers. (N. J. Agr. Col. Ext. Econ. Rev. nos. 92 and 93.) New Brunswick, 1935.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING JANUARY 1936
(Continued)

New York

- WYLIE, M. Making or marring the child's personality through emotional experience. (N. Y. Agr. Col. (Cornell) Ext. Bul. 335.) Ithaca, 1935.
- KELSEY, L. D., and RILEY, H. W. How to get electricity on the farm. (N. Y. Agr. Col. (Cornell) Ext. Bul. 339.) Ithaca, 1935.
- ROMAN, N. M. Homemade and remodeled furniture. II. The girl's room series for 4-H club work. (N. Y. Agr. Col. (Cornell) Junior Ext. Bul. 51.) Ithaca, 1935.
- DUTHIE, M. E. Program of songs, games, and folk dances for 4-H clubs. (N. Y. Agr. Col. (Cornell) Junior Ext. Bul. 55.) Ithaca, 1935.

North Carolina

- McKIMMON, J. S. Canning fruits and vegetables. (N. C. Agr. Col. Ext. Circ. 114, revise and reprint.) State College Station, Raleigh, 1935.
- PARRISH, C. F., and MAUPIN, C. J. Feeding for egg production. (N. C. Agr. Col. Ext. Circ. 158, revise and reprint.) State College Station, Raleigh, 1935.
- GAUGER, H. C., and DEARSTYNE, R. S. Common parasites of poultry. (N. C. Agr. Col. Ext. Circ. 160, revise and reprint.) State College Station, Raleigh, 1935.
- HOLMAN, A. T. Terracing farm lands. (N. C. Agr. Col. Ext. Circ. 173, revise and reprint.) State College Station, Raleigh, 1935.
- McVEY, D. H. Planning a farm program. (N. C. Agr. Col. [Ext.] Misc. Pamphlet 20.) State College Station, Raleigh, 1935.
- BLAIR, E. C. An opportunity - Use rented acres to build fertile soils. (N. C. Agr. Col. Ext. Misc. Pamphlet 24.) State College Station, Raleigh, 1935.

North Dakota

- DAWSON, R. M. Salads for every occasion. (N. Dak. Agr. Col. Ext. Circ. 101, rev.) State College Station, Fargo, 1935.
- HOPPER, T. H., and others. Hydrocyanic acid poisoning of livestock. (N. Dak. Agr. Col. Ext. Circ. 136.) State College Station, Fargo, 1935.

Ohio

- PARKS, T. H., and PIERSTOREFF, A. L. The control of garden insects and diseases. (Ohio Agr. Col. Ext. Bul. 76, rev.) Columbus, 1935.
- LANCASHIRE, E. R., and others. Tomatoes for canning. (Ohio Agr. Col. Ext. Bul. 114, rev.) Columbus, 1935.
- DUNHAM, W. E. Package bees for honey production. (Ohio Agr. Col. Ext. Bul. 159.) Columbus, 1935.
- Four-H club demonstrations. (Ohio Agr. Col. Ext. 4-H Circ. 24, rev.) Columbus, 1935.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING JANUARY 1936

Ohio
(Continued)

- FERGUSON, C. M. Air conditioning eggs. (Ohio Agr. Col. Ext. Poultry Pointers no. 25.) Columbus, 1935.
ZUMBRO, P. B. Summer management suggestions. (Ohio Agr. Col. Ext. Poultry Pointers no. 26.) Columbus, 1935.
Programs of the Ohio Agricultural extension service, for the community, for the farm and for the home. Ohio Agr. Col. Ext. [unnumbered] [1935]

Oklahoma

- MOORING, D. C. The home acre orchard. (Okla. Agr. Col. Ext. Circ. 163, rev.) Stillwater, 1935.
Gen. Ser. 17.
McPHEETERS, W. H. The farm pond. (Okla. Agr. Col. Ext. Circ. 175, rev.) Stillwater, 1935.
Gen. Ser. 25.
4-H home demonstration club manual no. 3. (Okla. Agr. Col. Ext. Circ. 188, rev.) Stillwater, 1935.
Club Ser. 29.
4-H home demonstration club manual no. 5. (Okla. Agr. Col. Ext. Circ. 190, rev.) Stillwater, 1935.
Club Ser. 31.
MOORING, D. C. Early cabbage, cauliflower, head lettuce and Bermuda onions. (Okla. Agr. Col. Ext. Circ. 212, rev.) Stillwater, 1935.
Gen. Ser. 47.
PHAGAN, C. V. Terracing in Oklahoma. (Okla. Agr. Col. Ext. Circ. 218, rev.) Stillwater, 1935.
Gen. Ser. 56.
Suggestions for conducting 4-H club girls' judging contests. (Okla. Agr. Col. Ext. Circ. 258, rev.) Stillwater, 1935.
Club Ser. 39.
McPHEETERS, M. Home preservation of fruits and vegetables. (Okla. Agr. Col. Ext. Circ. 260, rev.) Stillwater, 1935.
Gen. Ser. 98.
MOORING, D. C. Emergency home vegetable garden. (Okla. Agr. Col. Ext. Circ. 278, rev.) Stillwater, 1935.
Gen. Ser. 213.
PHAGAN, C. V. Farm home sanitation. (Okla. Agr. Col. Ext. Circ. 289, rev.) Stillwater, 1935.
Gen. Ser. 222.

Puerto Rico

- MEDINA, V. Siembra y cultivo de un cafetal. (Puerto Rico Univ., Agr. Ext. Bul. 6.) Rio Piedras, 1935.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING JANUARY 1936
(Continued)

Tennessee

- GUTHRIE, M. Home canning, preserving and pickling. (Tenn. Agr. Col. Ext. Pub. 105, 9th ed. [rev.]) Knoxville, 1935.
- HERRINGTON, G. L. Boys' 4-H club guide, Tennessee. (Tenn. Agr. Col. Ext. Pub. 114, 6th ed. [rev.]) Knoxville, 1935.
- MILTON, R. H. Burley tobacco culture. (Tenn. Agr. Col. Ext. Pub. 161, rev.) Knoxville, 1935.
- MCLEOD, J. H., and HOLMES, H. C. A planned farm program. (Tenn. Agr. Col. Ext. Pub. 187.) Knoxville, 1935.

Virginia

- BYRNE, W. H., and COPLEY, T. L. Flue-cured tobacco. (Va. Agr. Col. Ext. Bul. 138.) Blacksburg, 1935.
- BYRNE, W. H., and ANDERSON, B. G. Dark-fired tobacco. (Va. Agr. Col. Ext. Bul. 139.) Blacksburg, 1935.

Washington

- Score cards for household exhibits. (Wash. State Col. Ext. Bul. 116 [rev.]) Pullman, 1935.
- KNOTT, J. C., and HILL, O. J. Feeding dairy cows. (Wash. State Col. Ext. Bul. 164, rev.) Pullman, 1935.
- RUSSELL, R. An everyday delicacy: Eat more strawberries, can more. (Wash. State Col. Ext. Bul. 169 [rev.]) Pullman, 1935.
- SNYDER, J. C. Home fruit and vegetable storage. (Wash. State Col. Ext. Bul. 209.) Pullman, 1935.
- HILL, O. J., and KNOTT, J. C. A safe bull pen. (Wash. State Col. Ext. Bul. 210.) Pullman, 1935.
- GALLUP, G. Outline of 4-H room improvement club work. (Wash. State Col. Ext. 4-H Club Circ. 18 (rev.)) Pullman, 1935.
- SAWYER, C. E., and HAMILTON, C. M. Coccidiosis in chickens. (Wash. State Col. Ext. Poultry Pointers no. 6 (rev.)) Pullman, 1935.
- MILLER, M. W., and others. The Washington laying house. (Wash. State Col. Ext. Poultry Pointers no. 11 (rev.)) Pullman, 1935.
- BEARSE, G. E., and BUCHANAN, W. D. Cannibalism in chickens. (Wash. State Col. Ext. Poultry Pointers no. 12 (rev.)) Pullman, 1935.
- BUCHANAN, W. D. Turkey raising in Washington. (Wash. State Col. Ext. Poultry Pointers no. 16 (rev.)) Pullman, 1935.
- POULTRY COUNCIL OF THE STATE COLLEGE OF WASHINGTON. The Washington breeders' ration. (Wash. State Col. Ext. Poultry Pointers no. 25.) Pullman, 1935.
- POULTRY COUNCIL OF THE STATE COLLEGE OF WASHINGTON. Worms in poultry. (Wash. State Col. Ext. Poultry Pointers no. 26.) Pullman, 1935.
- POULTRY COUNCIL OF THE STATE COLLEGE OF WASHINGTON. Pullorum disease. (Wash. State Col. Ext. Poultry Pointers no. 27.) Pullman, 1935.

LIST OF STATE EXTENSION PUBLICATION RECEIVED DURING JANUARY 1936
(Continued)

Wisconsin

WILEDEN, A. F., and EMBANK, H. L. How to conduct group discussion.
(Wis. Agr. Col. Ext. Circ. 276.) Madison, 1935.
References.

Wyoming

SABIN, D. R. Wyoming weeds and their control. (Wyo. Agr. Col. Ext.
Circ. 33, rev.) Laramie, 1935.
Songs and yells for Wyoming 4-H club members. (Wyo. Agr. Col. Ext.
[unnumbered] 1935) Laramie.

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ATLAS OF AMERICAN AGRICULTURE

The sections of the Atlas of American Agriculture describing the climate, natural vegetation, and lay of the land in the United States are being re-engraved or lithographed and will be bound into one volume, with the Soils Section, under the title "The Physical Basis of American Agriculture".

This volume consists of the following sections:

- I. Land Relief, contains one map in colors and two pages of text.
- II. Temperature, Sunshine, and Wind, includes 100 maps, several graphs and about 14 pages of text.
- III. Frost and Growing Season, contains 9 maps, a number of graphs, and several pages of text.
- IV. Precipitation and Humidity, consists of 73 maps, several graphs, and about 11 pages of text.
- V. Natural Vegetation, includes 2 maps, 55 photographs of the various types of vegetation, and about 20 pages of text.
- VI. Soils Section, contains 4 colored soil maps (one of them in 12 sheets), a colored chart of soil profiles, a colored diagram, 200 tables, and many pages of text.

This Atlas of land relief, climate, soils and vegetation in the United States is about 14 x 19 inches, and, including the Soil Section, will comprise about 250 pages. The edition for free distribution will be very limited and will be confined to Government depositories, agricultural college libraries, and certain other libraries, to be determined by the Department of Agriculture. The Atlas will be for sale by the Superintendent of Documents, Government Printing Office, for \$12.00 a copy.

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At the request of the School of Forestry, the Library of the Oregon State Agricultural College compiled in June 1935 a list of theses submitted for advanced degrees in forestry in the following institutions: University of California, Harvard University, University of Idaho, Iowa State College, Michigan State College, University of Michigan, University of Montana, Oregon State Agricultural College, University of Washington, Yale University. The list was compiled with F. E. R. A. help and typewritten copies furnished to the schools that submitted the lists. A copy was also sent to the Library of the Forest Service, U. S. Department of Agriculture.

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BIBLIOGRAPHIES AND LISTS

Miscellaneous

- Bibliography of field experiments. Report of the committee on bibliography of field experiments. Compiled by F. R. Immer, T. A. Kiesselbach, J. T. McClure and H. M. Steece, Chairman. In Jour. Amer. Soc. Agron. v. 27, no. 12, p. 1013-1018.
- Biographical data and bibliography of the works of the members and associates of the National Research Council of the Philippine Islands. In National Research Council of the Philippine Islands, Report no. 1, 1935, p. 611-765.
- Biographical data and bibliography of the works of associate members [of the National Research Council of the Philippine Islands]. In National Research Council of the Philippine Islands, Report no. 1, 1935, p. 765-902d.
- Burchfield, Laverne. Student's guide to materials in political science. prepared by Laverne Burchfield under the direction of the Sub-committee on research of the Committee on policy of the American political science association. New York, H. Holt and company, 1935. 426 p.
- Carnegie endowment for international peace. Division of intercourse and education. International mind alcove booklist, by Amy Heminway Jones. 5th ed. New York, 1935. 19 p.
- Crooks, E. J., comp. Bibliography on the Spanish home, by Esther J. Crooks and Ruth W. Crooks. [n.p.] 1935. 70 numb. 1. Mimeographed.
- Nanking. University. Library. The agricultural index to periodicals and bulletins in Chinese and in English principally published in China. Supplement (1932-1934) Comp. by the Department of periodicals and pamphlets, the University of Nanking Library, University of Nanking. Nanking, China, 1935. 348, 28 p. Text and added title in Chinese: "English section", 28 p. at end.
- Special libraries association. Statistics of Canadian commodities, comp. by a committee of the Montréal Special libraries association, consisting of Maud E. Martin, chairman and Mildred I. Turnbull. New York city, 1935. chart.
- U. S. Department of Labor. Women's Bureau. Reading list of references on household employment. 15 p. 1936. (Bulletin no. 138)
- U. S. Tennessee Valley Authority. Soy beans. A partial bibliography. Comp. by Ernest I. Miller, Reference Librarian, Technical Library. 18 p. Typewritten. Knoxville, Tenn., 1935.
- Willis, L. G., comp. Bibliography of references to the literature on the minor elements and their relation to the science of plant nutrition, compiled by Dr. L. G. Willis. New York, Chilean nitrate educational bureau, inc., 1935. 455 p. Mimeographed.

U. S. Department of Agriculture

Bureau of chemistry and soils.

Selected references on iodine, 1914-1935. Compiled by V. A. Pease. 1935. 27 p. Issued by Food research division. Mimeographed.

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SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
of the U. S. Department of Agriculture
received during January, 1936, exclusive of Bibliographies*
and current issues of serials.**

Office of the Secretary

- Economic balance. Remarks by Henry A. Wallace over the National farm and home hour, NBC, Dec. 24, 1935. 3 p.
- The challenge to agriculture. Address by M. L. Wilson at Des Moines, Iowa, on Jan. 16, 1936, before the Annual convention of the Iowa farm bureau federation. 1936. 15 p.
- The farm conference. Remarks by Henry A. Wallace over the National farm and home hour, NBC, Jan. 14, 1936. 4 p.
- Public opinion and the farm fight. Remarks by Henry A. Wallace over the National farm and home hour, NBC, Dec. 31, 1935. 4 p.
- The supreme court decision. Remarks by Henry A. Wallace over the National farm and home hour, NBC, Jan. 7, 1936. 3 p.
- Validity of the fundamental assumptions underlying agricultural adjustment. Address by M. L. Wilson before the American farm economic association, New York City, Dec. 28, 1935. 19 p.

Agricultural Adjustment Administration

- The Canadian trade agreement and agriculture in the north central states. 1935. 8 p. (Issued in cooperation with Extension service)
- The Canadian trade agreement and fruits and vegetables. 1935. 5 p.
- Canadian trade agreement and livestock. 1935. 3 p.
- The Canadian trade agreement and wheat. 1935. 1 p.
- The Canadian treaty and livestock feeds. 1935. 3 p.
- Farmers and the export market. Address by Henry A. Wallace before Annual convention of American farm bureau federation, Chicago, Dec. 10, 1935. 1935. 16 p. (Current information statement no.13)
- Plans, program, and public opinion -- and progress. Address given by Hon. Chester C. Davis before the forty-ninth annual convention of the Association of land-grant colleges and universities, Washington, D. C., November 20, 1935. 4 p.
- Potato acreages, yields and utilization for Pennsylvania. 1936. 10 p.

*Bibliographies included in general list of bibliographies on page

**For a list of the principal series issued regularly, see v. 9, no. 10, p. 354.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Agricultural Adjustment Administration

(Continued)

Preliminary analysis of some problems relating to the marketing of water-melons produced in Florida, Georgia, South Carolina and North Carolina. By Norman Léon Gold. 1936. 57 p. (Issued by General crops section)

Soil health and national wealth; how the AAA programs bring better use of farm land. 1936. 35 p.

The trade agreements program and American agriculture. Address delivered by Lynn Ramsay Edminster at the 48th annual meeting of the American economic association, New York City, Dec. 27, 1935. 17 p.

Bureau of Agricultural Economics

Agricultural policy and the economist. By A. G. Black. 1935. 8 p. Address, annual meeting, American farm economic association, New York City, Dec. 30, 1935.

Average prices received by farmers for 1935 crops, with comparisons. 1935. 22 p.

Barley handbook. Information on malting barley including official standards and a discussion of their use and application. Compiled by the Grain standards educational committee. 1936. 24 p. (Issued by Grain division)

Beef cattle outlook charts for use with the Agricultural outlook for 1936. 1935. 27 p.

Canadian grain in store and afloat in bond in United States markets (revised figures for 1935) 1936. 1 p. (Issued by Hay, feed and seed division)

Commercial stocks of domestic grain in store and afloat at principal United States markets. Revised figures for 1935. 1936. 1 p. (Issued by Hay, feed and seed division)

Cost of production of sweet corn. Data from studies in 6 states, selected years, 1919-33. Compiled from official sources by H. W. Hawthorne. 1936. 13 p. (Issued by Division of farm management and costs)

Cotton outlook charts for use with the Agricultural outlook for 1936. 1935. 31 p.

Cotton production in Mexico. By P. K. Norris. 1935. 15 p. (Issued by Foreign agricultural service)

Demand, credit, prices, outlook charts for use with the Agricultural outlook for 1936. 1935. 30 p.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Agricultural Economics
(Continued)

- Developments in marketing, 1935. by A. G. Black. 1935. 11 p. Address, annual meeting, National association of marketing officials, Chicago, Dec. 4, 1935.
- Feed crops, corn, oats, barley, hay, total livestock outlook charts for use with the Agricultural outlook for 1936. 1935. 31 p.
- A national program of farm management research. By C. L. Holmes. 1935. 12 p. Address, annual meeting, American farm economic association, New York, N.Y., Dec. 30, 1935. (Issued by Division of farm management and costs)
- Potatoes, and truck crops outlook charts for use with the Agricultural outlook for 1936. 1935. 43 p.
- The problem of reporting wholesale prices of butter. By L. M. Davis. 1935. 8 p. (Issued by Division of dairy and poultry products)
- Regulations of the Secretary of agriculture governing the inspection and certification of rice. Effective January 15, 1936. 14 p.
- A review of the 1935 Arizona fall lettuce season. By A. E. Prugh. 1936. 6 p. (In cooperation with Arizona fruit and vegetable standardization service)
- Review of the 1935 fall bean season. Florida. 1935. 3 p. (Florida state marketing bureau cooperating)
- Rules and regulations of the Secretary of agriculture governing the inspection and certification of hay and straw for class and grade. Under an act of Congress approved May 17, 1935 (49 Stat. 247) Revised, effective January 2, 1936. 10 p. 1935.
- Statistics relating to the grapefruit industry, 1935. Compiled by A. C. Edwards. 1936. 25 p. (FS-CF-85) (Issued by Foreign agricultural Service)
- Studies of terminal marketing problems. By Frederick V. Waugh. 1936. 7 p. (Issued by Division of marketing research) Address, Annual meeting, National league of wholesale fresh fruit and vegetable distributors, Baltimore, January 8, 1936.
- A study of ranch organization and operation in North-central Texas. 1936. 73 p. (In cooperation with the Bureau of animal industry)
- Tax delinquency of rural real estate in 15 Illinois counties, 1928-33. 1933. 10 p. (Issued by Division of agricultural finance)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Agricultural Economics (Continued)

- Tax delinquency of rural real estate in eight Kentucky counties, 1928-33.
1936. 10 p. (Issued by Division of agricultural finance)
- Tax delinquency of rural real estate in seven New Jersey counties, 1928-33.
1936. 11 p. (Issued by Division of agricultural finance)
- Tax delinquency of rural real estate in eight Virginia counties, 1928-33.
1936. 9 p. (Issued by Division of agricultural finance)
- United States grain in store in bond in Canada (revised figures in 1935) 1936.
1 p. (Issued by Hay, feed and seed division)
- U. S. standards for California and Arizona grapefruit. (Effective Jan. 1, 1936.)
1935. 7 p.
- U. S. standards for California and Arizona oranges (Effective January 1, 1936.)
1935. 8 p.
- U. S. standards for milled rice. Established Sept. 15, 1927. In effect,
Dec. 1935. 1935. 12 p.
- Uses and products made of corn; abstracts and references, supplement 4.
Compiled by C. Louise Phillips and E. G. Boerner. 1935. 28 p. (USGSA-GI-Supp.4) (Issued by Grain division)

Bureau of Agricultural Engineering

- Simplified pitot tube calculations of air flow in ducts and pipes. By Chas.
A. Bennett. 1935. 4 p.

Bureau of Animal Industry

- Outline of production of intradermic tuberculin for testing cattle. 1935.
4 p. (Issued by Biochemic division)
- Preserving farm-dressed meat in freezer storage. By K. F. Warner. 1935.
4 p. (A.H.D. no. 16) Paper delivered before the Extension section of the
American society of animal production, Chicago, Ill., Nov. 29, 1935.

Bureau of Biological Survey

- Average weight of rabbits at weaning age. By Chas. E. Kellogg. 1936. 3 p.
(Wildlife research and management leaflet BS-31) (Issued by Division of
wildlife research)
- A cage trap useful in the control of white-necked ravens. By Shaler E. Aldous.
1936. 4 p. (Wildlife research and management BS-27) (Issued by Division
of wildlife research)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Biological Survey (Continued)

Directions for preservation and care of material collected for food habits studies. Prepared in Section of food habits, Division of wildlife research. 1935, 5 p. (Wildlife research and management leaflet BS-29)

Economic ornithology and the correlation of laboratory and field methods. By Clarence Cottam. 1936. 13 p. (Wildlife research and management leaflet BS-30) (Issued by Division of Wildlife research)

Feeding schedule for rabbits. Prepared in Section of fur resources, Division of wildlife research. 1935. 1 p. (Wildlife research and management leaflet BS-28)

Fur resources -- the stepchild of conservation. By Frank G. Ashbrook. Dec. 1935. 4 p. (Wildlife research and management leaflet BS-25) (Issued by Division of wildlife research)

Raising badgers in captivity. Prepared in Section of fur resources, Division of wildlife research. 1936. 2 p. (Wildlife research and management leaflet BS-32)

Relations of agriculture and game management. An address by Ira N. Gabrielson, delivered at the annual meeting of the Association of land grant colleges and universities, in Washington, D. C., Nov. 19, 1935; and repeated in Morgantown, W. Va., on Jan. 15, 1936, during a Farm and home week program sponsored by the College of agriculture of West Virginia university. 15 p.

Bureau of Chemistry and Soils

The outturn from several grades of gum containing small, medium and large quantities of chips and trash. By G. P. Shingler. 1935. 3 p. (Issued by Naval stores station)

Bureau of Dairy Industry

A dairy herd-improvement program for the southern states. By J. F. Kendrick, 1936. 8 p. Address before the Southern section of the American dairy science association at Jackson, Mississippi, Feb. 5, 6, & 7, 1936.

Bureau of Entomology and Plant Quarantine

Apparatus for treating insects with contact dusts. By F. S. Chamberlin. 1935. 3 p. (ET-65) (Issued by Division of truck crop and garden insect investigations)

A combination brush and needle for handling mites and certain insects. By Floyd F. Smith. 1935. 2 p. (ET-67) (Issued by Division of truck crop and garden insect investigations)

A metal and glass insect cage. By C. E. Woodworth. 1935. 3 p. (ET-69) (Issued by Division of truck crop and garden insect investigations)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Entomology and Plant Quarantine (Continued)

- Methods for conducting life-history studies on tarsonemid mites. By Flody F. Smith. 1935. 2 p. (ET-68) (Issued by Division of truck crop and garden insect investigations)
- A mobile power soil sifter. By M. C. Lane and F. H. Shirck. 1936. 2 p. (ET-70) (Issued by Division of truck crop and garden insect investigations)
- An ovipository for Fuller's rose beetle. By Floyd F. Smith. 1935. 2 p. (ET-66) (Issued by Division of truck crop and garden insect investigations)
- Soil-washing apparatus and methods used in counting wireworm eggs. By F. H. Shirck. 1936. 2 p. (ET-71) (Issued by Division of truck crop and garden insect investigations)

Extension Service

- The Canadian trade agreement and agriculture in the North central states. 1936. 8 p. (In cooperation with the Agricultural adjustment administration)
- The curriculum for training home demonstration workers. By C. W. Warburton. 1935. 4 p. (Extension service circular 230)
- Film strips of the United States Department of agriculture. Price list 1935/36. 1935. 7 p. (Issued by Division of cooperative extension)
- Outlines of marketing agreements and licenses under the supervision of the General crops section, Agricultural adjustment administration. Prepared by William C. Ockey. 1935. 108 p. (Issued by Division of cooperative extension)
- The relationship of age and other factors to enrollment and continuation in 4-H club work. By Lucinda Crile. 1935. 29 p. (Extension service circular 231) Revision of and supersedes Circular 183.
- A summary of some of the papers presented at the Farm and family living outlook conference, Washington, D. C. October 28 to November 2, 1935. 1936. 24 p. (Miscellaneous extension publication no. 23)
- Syllabus of charts for use in county agricultural adjustment planning. 1935. 45 p. (Agricultural adjustment administration cooperating)

Forest Service

- Aerial survey handbook. 1935. 24 p.
- Design and construction of Forest service dams. 1935. v. p.
- Fourteenth annual report and program, Appalachian forest experiment station, 1934/1935. 1935. 30 p.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Forest Service (Continued)

Treatment of aspen stands. 1935. 5 p. (Issued by Lake states forest experiment station)

Work of the U. S. Forest Service. Revised Nov. 1935. 35 p.

Grain Futures Administration

Size of daily price range of dominant Chicago wheat future in relation to its price. By Paul Mehl. 1935. 11 p.

Bureau of Plant Industry

Report of the Great Plains uniform winter-hardiness nurseries of 1934-35. By K. S. Quisenberry. 1935. 2 p. (Issued by Division of cereal crops and diseases)

Summary of uniform spring-wheat bunt nursery, 1935. By H. A. Rodenhiser and J. Allen Clark. 1935. 2 p. (Issued by Division of cereal crops and diseases)

Soil Conservation Service

Grass in soil erosion control. By Lyman Carrier. 1936. 15 p.

Improvement of permanent pastures by Lyman Carrier. 1936. 5 p.

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INTERNATIONAL CLASSIFICATION SYSTEM FOR FOREST BIBLIOGRAPHY

The International Union of Forest Research Organizations has recently adopted for general use a decimal classification system for current forest literature prepared by Dr. Flury of Zürich and published in German in Vol. XVIII, No. 2, of the Mitteilungen der Schweizerischen Anstalt für das forstliche Versuchswesen (1934). This system will be used in the preparation and issue periodically (in English, French and German) of classified references and abstracts of all important forest literature published throughout the world.

Persons and institutions wishing to be supplied with these periodical references and abstracts in English will find it necessary to possess the English edition of the classification system. This is now available, price 6s. per copy (postage extra, weight 9 oz.), and may be obtained on application to the Librarian, Department of Forestry, Oxford.

An official who is retiring from the public forest service of Australia is offering for sale, the following forestry periodicals: Allgemeine forst- und jagdzeitung, v. 1 to date; Wiener allgemeine forst- und jagd-zeitung, v. 1 to date. His address can be obtained from the Librarian of the Forest Service, U. S. Department of Agriculture, but no information as to the price of the sets is available.

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INTERNATIONAL AGRICULTURE AS SHOWN BY THE PUBLICATIONS
OF THE INTERNATIONAL INSTITUTE OF AGRICULTURE
AT ROME

By J. Clyde Marquis, U. S. Delegate to the Institute.

Changes in Distribution

The world-wide changes in agriculture and trade policies have greatly increased the need for facts regarding agricultural production, exports, imports, consumption and trade restrictions and regulation, and has led the International Institute of Agriculture to place more emphasis on economic questions. The Institute has been assembling and publishing information on the world supply, trade and demand for farm products since 1908, with funds provided by the contributions of most of the governments of the world, cooperating under an international convention ratified by seventy-two countries.

When the Institute was organized thirty years ago, international commerce was relatively free and agricultural production had little government direction or control. The principal need was for statistics on agricultural production and trade, reviews of current progress in agricultural economics, science and practice related to agriculture. The changed conditions of recent years have been recognized by the Institute and its work is now directed toward the gathering and distribution of facts that will best serve the needs of the governments, producers and tradesmen of the various countries. The primary objective is to assemble facts on a sufficiently broad, international basis as to be useful as a guide in production and trade as well as to be of service to the several governments in developing and adjusting their policies to the new international conditions.

In the economic and statistical field the principal publications are: The World Agricultural Situation annual; the International Yearbook of Agricultural Statistics; the International Yearbook of Agricultural Legislation; the publications on the first World Agricultural Census of 1930, and the new quarterly publication "Government measures affecting agricultural prices". The annual volume on the World Agricultural Situation, the first of which was issued in 1929/30 is a very complete commentary on the history of the present depression.

The International Review of Agriculture, with its 4 parts, covering agricultural economics, crop reports and statistics, science and practice, and plant protection, continues to be the principal outlet for the general work of the Institute. It is issued as monthly separates for general distribution since many readers are interested only in one of the four fields covered.

The special monograph reports constitute a series of increasing importance, since the Institute is taking up more and more special subjects for investigation. The first world agricultural Census for the year 1930 is expected to be completed this year in a series of 12 or more monographs.

Distribution now by subscription

The Government of each member state receives a limited number of all publications for official use. These are usually all needed by the Departments and ministries of agriculture of the various countries.

INTERNATIONAL AGRICULTURE AS SHOWN BY THE PUBLICATIONS
OF THE INTERNATIONAL INSTITUTE OF AGRICULTURE
AT ROME
(continued)

Previous to January 1935 the United States Government purchased an allotment of publications of the Institute for distribution to libraries, colleges, farm organizations, chambers of commerce etc. These copies were distributed by the Department of Agriculture. The purchase of these copies was discontinued at the end of 1934 and libraries who formerly received copies from the Bureau of Agricultural Economics at Washington were not served during 1935. The Institute has recently issued a list of publications in English, with prices stated in dollars, so that libraries and private agencies may make remittances in U. S. currency to pay for subscriptions to the various publications. These circulars are now being widely distributed direct from the Institute at Rome. Subscriptions may be forwarded direct to the Institute with remittances and postal money orders and checks or drafts on New York banks or orders may be placed through the Bureau of Agricultural Economics at Washington, D. C.

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WORLD'S POULTRY CONGRESS

The following announcement is taken from a recent circular of the World's Poultry Congress: "Letters are being received by the General Secretariat for the VIth World Poultry Congress from states all over the world, which show how strong the participation in this Congress will be on the part of foreign countries. Due to the fire in Exhibition Hall IV in Berlin, the Congress had to be removed to Leipzig. It will take place from July 24 to August 2, 1936. Leipzig was chosen, since in the city of the world famous Spring and Autumn Fairs, there are plenty of halls and convention rooms.

The wonderful edifice of the "Deutsche Bucherei" (German Library), with its comfortable large halls, will be the meeting place of the participants in the scientific and the practical sessions. Moreover, the German Library will give a special showing of the trade literature of at least the last twenty years, taken from its practically complete collection. Both giant exhibition halls provide space for a comprehensive world show of small-animal breeding. The city of Leipzig itself will place everything at the disposal of the visitors from all over the world, in order that they may be hospitably accommodated.

Through the change in the site of the exhibition, some of the conditions have been changed. The General-sekretariat für den VI. Weltegeflügelkongress, Berlin, W. 9, Vosstrasse 17/18 and Leipzig C. 1, Windmühlenstrasse 1-5, will give any information desired to those interested, gladly and free of charge."

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FARM WOMEN IN FICTION

By Caroline B. Sherman, Associate Agricultural Economist
Bureau of Agricultural Economics.

Women of the frontier, who trekked across the mountains and plains to help to make the pioneer homes, have been celebrated in song and sculpture and story. Theirs was a romantic era. But what of the women of everyday life on our everyday farms, who, without the thrills of adventure and conquest, are doing their full part day after day on our practical American farms? We would scarcely expect to find such farm women as the leading characters in many modern novels. But they are there in goodly number, and often they are depicted with surety of touch and depth of understanding.

Calling them to mind, one by one, they seem to separate into 3 chief groups: Those who are peerless helpmates to their farmer husbands, those whose interests are deep in the life of the farm but who have come to it somewhat accidentally, and those who are farmers in their own right.

Among the helpmates are those who aid and encourage their husbands chiefly through love, personality, and an ability to meet whatever comes with fortitude. Such a wife was Lena in Red Rust, the book by Cornelia Cannon. Her support was an untold strength to Matt Swenson in his long and patient experiments to produce the rust resistant wheat. Lena could not visualize the possible outcome, and its benefits to thousands of Northwest farmers. Much less could she understand the processes by which he worked. But her interest, enthusiasm, and sympathy never flagged and no sacrifice was too great to help him in his quest.

Occasionally the helpmate understands the farm as well as her husband and can carry on successfully by herself. Honey, in Can't Get a Red Bird by Dorothy Scarborough, makes it possible for her husband to give months to organization work and to hunting out markets in foreign lands. Rose understands the farm much better than Frank, in Green Rush by John Frederick, and thus leaves him free to guide and mold local opinion from his editor's chair. The wife in Willa Cather's My Antonia is surely the better farmer of the two - so dedicated to husbandry that she remains in memory as a sturdy midwest Ceres or Pomona.

Among those who have come into the farm life but have made themselves a vital part of it are Rose in the book by Walter Edmonds called The Big Barn. When she came to live in the patriarchal home of her canal-building father-in-law in New York, he was devoting his last years to making his family place an intimate monument to achievement. She had not the faintest comprehension, at first, of what he was trying to do. But as his family disintegrated before his eyes, her understanding awakened with her pity and she diligently prepared herself, in spite of many obstacles, to carry on for him.

In John Oskison's recent novel Brothers Three, when the great Oklahoma landowner died, again it was a daughter-in-law, May, who understood that to him the land and the home meant much more than capital and investment. She endeavored to perpetuate the spirit as well as the boundaries of the estate. Tamar Oakes, in Edna Ferber's American Beauty was the disinherited descendant of generations of landowners. So strong was the bond in her that she sacrificed everything else to regain and to hold the threatened ancestral home of her New England family.

FARM WOMEN IN FICTION
(continued)

Among the women who are farmers in their own right stand three great figures - perhaps as arresting as any in American fiction. Her father broke the soil and made the Nebraska farm, but it was Alexandra, in Willa Cather's O Pioneers - not one of the sons - who shouldered the responsibility when he died and brought the farm through hard years to the stage that her far-sighted father had worked and prayed for. Selina in Edna Ferber's book So Big inherited a damp and unpromising patch of ground from her unimaginative and unschooled husband and by years of study and hard but rewarding labor, she developed it to a successful truck farm. She came to value a possession or an achievement in accordance with the effort, the thought, and the creative ability that had gone into the making of it. To her the soil was a great mysterious force, waiting to unite with human knowledge and human skill to bring forth those fundamental gifts to humanity - the raw material for clothes and food for all nations.

Dorinda in Ellen Glasgow's Barren Ground inherited from her always unlucky parents a worn-out Virginia farm, in a section that seemed to have no future at all. But Dorinda loved the land, the country, and the thought of home. She, too, was willing to study and experiment, to work unnumbered hours, to concentrate always on the problem at hand. Through sheer love of the soil and understanding of its mysteries, through zealous championship of the things that seemed nearest and dearest to her, and through constant personal study of every problem as it presented itself, she brought, not one old farm, but two, to a fertility and abundance unknown in that section for a generation.

In these books these women of the farm are sustained and renewed by an ability to drink of some deep and often hidden spring that can be found in country life by those who know the secret. Barren Ground gives us some memorable passages of this inward character and in Green Bush the philosophy of country life is formulated in a way that challenges comparison.

We have, too, other types of farm women in our farm life fiction. It would not be truly representative otherwise. In one of the first realistic stories of the farm, The Wind Before the Dawn, the woman's life was as bleak as pen could make it. In Ruth Suckow's Country People we have almost unrelieved drabness. But Beret, the apprehensive Norwegian wife of the exuberant pioneer farmer in Rolvaa's Giants in the Earth, is not drab. She is very real and appealing and pitiful. The prairies were too vast for her. To her, untamed nature was terrorizing. In Elaine Goodale Eastman's new book Hundred Maples we find Ellen, who is naturally unsuited to farm life, making a spirited effort to lighten and modernize the farm's demands on the farm woman.

We, too, cannot resist naming some of those farm women of an older day, described as they are remembered by others. Who can forget Abbie Deal with A Lantern in Her Hand? Or Amalia in Spring Came on Forever? or Maria Chapdelaine? Or Glenway Wescott's Grandmothers?

Taken as a whole, these books will eventually fulfill a mission far beyond that in the mind of any one writer. Long years from now a student of the farm life of this generation who wishes to know something of the personalities and thoughts and unconscious philosophies that guided the families and family life of our great rural regions will find them pictured for him, not in histories, or sociologies, or encyclopedias, but in these faithful portrayals of farm women in fiction.

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THE AGRICULTURAL JOURNALS OF UPPER CANADA

A Review by Mr. Everett E. Edwards, Editor, Agricultural History

In his article on "The Agricultural Journals of Upper Canada (Ontario)" in Agricultural History 9:167-175 (October 1935), Mr. Fred Landon, librarian of the University of Western Ontario, points out that it is difficult to trace the history of the earlier Canadian agricultural journals as the surviving copies are few in number. Only the libraries of the Dominion Department of Agriculture and the University of Western Ontario have extensive collections, and Mr. Landon hopes that his article will stimulate a search for additional copies of these early journals, and information about them.

Of the two earliest farm journals supposedly issued in Upper Canada, now Ontario, there are no known copies in any library. The prospectus of a paper to be called the Upper Canada Farmer appeared in 1837, and the Canadian Cultivator and Farmer's Magazine of Useful Knowledge was reported to have been commenced by James H. Sears at St. Catharines in 1839.

The first farm journal in Upper Canada of which there is clear record is the British American Cultivator (Toronto, 1842 to 1847). In the character of its articles on crops and general farming economy, it differed little from its American contemporaries from whom it quoted extensively.

The Farm and Mechanic was inaugurated in October 1848. In its early years much space was given to the Liebig mineral theory, and also considerable attention to horticulture. Its pages also reflect the introduction and growing importance of farm machinery.

The Newcastle Farmer, which probably first appeared in July 1846, was still being published as late as the close of 1848 at Cobourg.

The Canada Farmer was begun in January 1847 by William McDougall, a young Toronto lawyer who later had a distinguished public career. This journal was consolidated with the British American Cultivator in 1848 to form the Canadian Agriculturist, which, during its fifteen years of existence, rendered noteworthy service to the agricultural interests of Upper Canada. The Board of Agriculture of Upper Canada used the Canadian Agriculturist as its official organ and assumed proprietorship in 1857. It was taken over by the Toronto Globe in 1863 and ceased publication in December of that year.

The second journal to bear the name, Canada Farmer, appeared in January 1864 and continued to the end of 1876 when it was merged with the weekly edition of the Toronto Globe to form the Weekly Globe and Canada Farmer. The Rev. W. F. Clarke was the chief editor until 1868 when he withdrew to found the Ontario Farmer. Clarke was as remarkable an agricultural editor as Canada has produced.

The agricultural journals thus far mentioned were for the most part business enterprises, and usually sidelines of publishing concerns. In contrast, the Farmers' Advocate, begun in 1866, was distinctly the product of the interest and enthusiasm of a practical farmer, and today it is the oldest farm journal in Canada. The information given on William Weld, the founder and editor of this paper for many years, indicates that he was remarkable as a practical farm experimenter.

The history of Canadian agriculture as a whole remains to be written, and when scholars turn their attention to the older Provinces, the files of the early agricultural journals described in this article will be found the chief source of information. Copies of the article may be obtained from its author or from the Agricultural History Society (Room 3901, South Building, 13th Street and Independence Avenue, S. W., Washington, D. C.)

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REGARDING THE VALUE OF DETAILED ADMINISTRATIVE REPORTS

There is, unfortunately, a tendency on the part of many institutions to abbreviate their administrative reports to such a degree that they are deprived not only of much of their interest but also of much of their historical value and their usefulness in promoting an understanding of the work of the institutions. Important testimony to the value of detailed reports is given in the following extract from the Report of the Librarian of Congress for 1935, pages 2-3.

"As usual, the significant interest of the report consists in the developments and operations of the several divisions of the Library as set forth by their immediate chiefs. Certain of these - particularly in their description of accessions and of surviving needs - assume the character and dimensions of essays. No equivalent statements are issued by any other research library as part of its routine - the annual reports, for instance, of the British Museum and Bibliothèque Nationale being limited to the barest figures of growth. I have, however, hesitated to limit ours because the Library of Congress is at a stage where its aims, policies, personnel, and activities should be made known not merely to Congress but to the public at large, upon whose interest and support its further development largely depends. And while there is a public interested in the institution as a whole, there are sections of the public whose interest is especially concerned with a particular section of our collections and whose appreciation of that section is important to us. To cultivate it we must within reason publish information as to the additions that are being made to the collections, must exploit the gifts to it, and explain our aims for it. A merely itemized list of the accessions would not be informing; their significance must be indicated. Hence the rather elaborate descriptions in the reports of such divisions as the manuscripts, maps, music, fine arts, and law, Semitic and Orientalia.

The justification reaches us in numerous expressions from students or enthusiasts in those subjects who receive either the reports in full or reprints of the sections which particularly interest them. They even regard them as literature. They read them; if engaged in similar efforts at collecting, or with research involving the subject matter, they study them. From their point of view no detail is excessive. And our experience proves that in reporting thus fully we are not merely increasing the repute of the institution but assuring an amplification of its resources through gift and bequest, and a wider diffusion of its service through the appreciation of scholars, of students, and of investigators at large."

In connection with the Report of the Librarian of Congress and the extract given above, it is also of interest to note that the report of the Chief of the Division of Orientalia contains an article (p. 193-206) by Mr. W. T. Swingle of the Bureau of Plant Industry, on the Noteworthy Chinese Works on Wild and Cultivated Plants which have been recently acquired by the Library of Congress.

THE NEEDS OF SCIENTIFIC LIBRARIES*
By Leon Bultingaire, Chief Librarian
National Museum of Natural History, Paris

The credit stringency and the policy of economy to which present conditions seem to condemn us strike very heavily at all the institutions devoted to the development of human culture. Their effect is especially felt in those institutions which, like the scientific libraries, have come into existence because of recent requirements and must depend on new financial resources to attain the level which other institutions have already attained, making it possible for the latter to wait for better times without too great harm.

It is well known that the development of scientific libraries has been much retarded as compared with the development of the various sciences and that the funds placed at their disposal have always been allotted in such small amounts that one can only assume a lack of understanding on the part of those responsible for the task of regulating the distribution of the funds.

It is also well known that for long periods of time our large libraries were devoted almost entirely to literary disciplines and that science occupied a position similar to that which it occupied for a long time in the education of the average person, being merely a very thin veneer.

Nevertheless, one would suppose that the century which has witnessed an increase in the number of centers of scientific work, and has witnessed the progress of laboratory work and the practical application of the principal sciences in hitherto unknown proportions, would produce well installed and well equipped scientific libraries, provided with a personnel sufficiently large for carrying out this new and interesting work and with the ability to profit by all developments in library economy. This did not happen, however, and the scientific book had to be contented with the rôle of a poor relative, with no means for making itself extensively used and no means of making itself appreciated, as is so generously the case in everything that concerns literature, art, philosophy or history.

Does not science, however, more than any other discipline, require a complete and prompt documentation and consequently financial means for its attainment? Can one conceive for instance, of a naturalist making an adequate study of some genus or species, if he does not have at his disposal the observations made on the same subject in other parts of the world? It is useless to object that so much is published in that field that it is a vain effort to attempt to assemble everything that is of interest. It is true that one ought certainly to struggle against the scattering of efforts and for the concentration of papers now scattered in numerous publications, some of which are destined for an ephemeral existence, in a more restricted number of good journals. However, as long as present conditions prevail, the scientist who has at his disposal only part of what has been published will be at a disadvantage as compared with his colleagues and will run the risk of using the facilities of his laboratory in obtaining results which have already been obtained by others. For this reason it is impossible to conceive of the existence of a real center of scientific research without sufficient funds for obtaining publications and reviews devoted to its particular field. It is an unfortunate fact that all French scientific institutions complain of having to

*From *Revue Scientifique*, 73. année, 14 décembre 1935, p. 741-746. Translated by V. Rinsky-Korsakoff, U. S. Department of Agriculture Library.

THE NEEDS OF SCIENTIFIC LIBRARIES (continued)

limit the acquisition of publications and subscriptions to periodicals which would be of interest to them, in a measure affecting unfavorably their work. The biologist would like to know about the work carried out in all the marine laboratories of the world, complaining that he is informed only with regard to a part of them. The practicing physician is also curious to know the methods practiced by all his foreign colleagues but has to be content with consulting only a small number of journals which he has at his disposal.

The institutions which themselves publish their own work have found, undoubtedly, a possibility of partially remedying this scarcity of purchasing funds by exchanging with similar institutions, thus saving every year the price of a certain number of subscriptions. However, it should be kept in mind that the publication of a journal also requires a considerable expenditure and mailing is not always free, so that from the budgetary standpoint the expense is simply transferred from one ledger to another. This is demonstrated by the fact that certain institutions, after very careful calculations, have adopted the policy of paying the usual subscription price, rather than offering in exchange publications the net cost of which is higher. It is highly significant that in decreasing the funds for the publications of an institution, their exchange value sooner or later decreases. Therefore, the success of a scientific library depends on the appropriations for the printing of publications as well as on the regularity of the purchasing funds.

There is special reason why we should speak of the regularity of funds, since unfortunately there is a widespread opinion that the library of an institution is the department which suffers least from a more or less temporary decrease in appropriations. A library is not like cultivated land which, if allowed to lie fallow will, under the effect of atmospheric factors, accumulate reserves from which subsequent crops will profit. We know only too well that in discontinuing acquisitions for a more or less prolonged period of time, "gaps" are caused which are frequently irreparable. It is often more expensive to resume and carry out interrupted bibliographic work. Everyone remembers the condition of our scientific libraries after the recent convulsions of the great war. At that time it was unavoidable, but in times of peace it is inexcusable to place upon future budgets those expenses which should be taken care of immediately.

The efforts which have been made to counteract the scarcity of funds are well known. Collective catalogues of periodicals have been compiled, agreements have been entered into in connection with periodical subscriptions and for the purchase of important works, and union card catalogues have been made of the acquisitions of various libraries. By these measures, undoubtedly, a more serious crisis was avoided. However, it must be emphasized that these are temporary measures and if continued too long will bring about a method of procedure which will retard and be incompatible with true progress. To have eventually one copy of every good book published abroad in at least one library in Paris or in France is an excellent thing. But what is not so good and should not be allowed to continue is that different investigators, having an urgent need to consult some book, would be reduced to standing in line, waiting their turn, and asking themselves whether the progress attained in printing should result in such a state of affairs.

THE NEEDS OF SCIENTIFIC LIBRARIES (continued)

It is to be hoped that not only all the good publications would be purchased by a large number of libraries, but also that the more important libraries would have several copies of each, according to the needs of their readers, and be in a position to loan a copy without depriving themselves entirely.

Notwithstanding the opinion of some people, it is quite legitimate for libraries having only one copy of some valuable book to place the public interest above that of the individual and refuse the reader the right to carry it away to his home. It is the only means of assuring everybody the possibility of consulting the book during the time the library is open. However, it is deplorable that the library does not have a second copy of the same book which could be loaned for a very short time as requested, to those who have leisure time when the library is closed and to those very numerous persons who work not only during the day but also during a part of the night. This second copy we would demand not only of books of recognized value but also of the essential periodicals whose rôle is much more important in science than in literature and which must be much more carefully studied.

If this reform, which would fulfill the wishes of so many workers, should be carried out, obviously it would be necessary that the copies for outside loans and especially the periodicals would have to be handled in a way which would answer the purpose in view. More of these should be bound together compactly, which is an economy and insures that the volume will not disappear in a very short while. On the other hand, one should have separate bindings or at least carton covers for each separate publication. Why should one make unavailable twenty articles contained in a single volume by letting the volume be taken out by some specialist who is interested in only one of these articles when one could, if necessary, satisfy nineteen other specialists? Thus one would have to follow the example of numerous American institutions which are now commencing to publish under separate covers different articles, irrespective of their length, which eventually will form a complete volume.

The institutions which loan books could use very well the large number of separates which our more important libraries complain they can not use, due to the fact that they do not have a sufficiently large personnel to handle them bibliographically and also because they find it more convenient to furnish the reader with the complete volume containing the desired article. From special funds appropriated for the loan section it should be possible to do not only the indispensable binding work but also the bibliographic work which would enrich the general catalogue of the library.

Obviously, this reorganization would have been accomplished a long time ago if it could be carried out without extra expense. We believe, however, that taking into account the benefits derived from it by every specialized library and the advantages which it would offer to intellectual workers, and especially to those who live far away from important centers, one should not hesitate either with regard to the expenditure for material or with regard to the expenditure in connection with the personnel required for this reorganization.

The necessity for additional personnel becomes apparent not simply in connection with the work we have described above. In all other departments scientific libraries have an urgent need for an increase in personnel and it is desirable that the professional qualifications of the latter be higher.

THE NEEDS OF SCIENTIFIC LIBRARIES (continued)

When discussing the personnel of scientific libraries it would be well to bear in mind not only the personnel of specialized libraries, but also the personnel in charge of the scientific departments and of the scientific part of documentation, in the large general libraries. In both types of libraries it is important that the personnel should be sufficiently large to carry out the manifold bibliographical duties; if the latter are not carried out the content of a book, either purchased or received as a donation, can be ascertained only by a certain number of the initiated, consequently rendering only a part of the service which can be expected from it. Only a well conceived bibliographical organization makes it possible, without undue effort, to call the attention of a serious investigator to some book or article which may be of great importance to him, but such a bibliographical organization requires the collaboration of a personnel sufficiently large so that nothing of importance will be overlooked and also a personnel sufficiently well prepared for its duties so that the work can be carried out without mistakes.

Whether the librarian has a bachelor's degree or a doctor's degree and still more if he is a former pupil of the Ecole des Chartres or of any other big school, he in ninety-nine times out of a hundred has received a literary education. We do not in any way object to that, convinced as we are that general culture, together with the knowledge of a few modern languages, is the indispensable basis for any kind of bibliographic specialization. It is not the same regarding a knowledge of Latin or Greek which, if it can be disregarded elsewhere, must be required of anyone wishing to be in charge of a scientific library. On whom should one call if not on the librarian, when for instance, one desires to read the diagnosis of a plant in a manuscript or to understand what the authors say in their preface to the *Index Kewensis*?

This being established, it is none the less obvious that a person who wishes to perform the duties of a librarian in a scientific institution or in the scientific division of a general library must have special training. We do not mean that type of superficial training which makes it possible to shine among ignorant people and to extricate oneself with others by "beating around the bush" or by using those very easy generalities with which one becomes familiar in an exclusively literary course. Would it be asking too much if at the present time the list of diplomas required to obtain a position in most libraries, be increased both in number and variety, that a diploma like the P.C.B. (formerly P.C.N.) be required for a person wishing to make a career in a scientific library? One would thus have the assurance that he was familiar with at least a few sciences and that he was acquainted with the terminology. Naturally he should also be familiar with the history of science and scientific bibliography.

Such reforms in the issuing of diplomas to librarians would obviously put an end to a situation which is sometimes distressing. Whereas the traditions of sound knowledge, meticulous accuracy and professional honesty continue to keep our libraries at the level which they have always maintained in the realm of letters in the true sense of the word, it must be said that incompetence and a deplorable carelessness occur too often in the management

THE NEEDS OF SCIENTIFIC LIBRARIES (continued)

and utilization of the scientific collections of libraries. Any one can see that for himself by merely glancing over the shelves of the reading rooms in some of the provincial libraries, which are supposed to put at the disposal of the reader a good choice of scientific books. One shudders at the thought of the self-taught person who, completely unguided in such libraries, would try to obtain information from manuals of physics which end with the experiments of Galvan, from a treatise on astronomy in which astro-physics is hardly mentioned and from biological books which seem to ignore the main problems familiar even to the daily press. If an educated person would wish to study the questions in which he is interested, who in those libraries could give him the information which would enable him to eliminate the unimportant works and to find immediately the works which would answer his purpose? Undoubtedly, the prestige of the librarian would be saved to a certain extent by the fact that numerous readers could attest that he gives very precise information when it is merely a question regarding the Roman period or the history of the crusades. It is a question whether our librarians would be capable of giving information concerning more recent problems.

Due to the fact that they were firmly convinced of the gravity of the situation the Council of the Ecole des Chartres has recently decided to include in the programme of instruction a short survey of the bibliography indispensable in the study of the most important sciences. The courses are open not only to all the pupils of the Ecole des Chartres but also to the candidates for a technical librarian's diploma and even to those who with no practical purpose in view wish merely to broaden their knowledge. This measure, even if it can not bring about an immediate change in the situation to which we have alluded, has at least the outstanding merit of starting on a road which must continue to be followed.

The only objection which could be made to this reform, if it is to be the only one, would be for one to think that the problem is completely solved, whereas actually it has only been approached, and that the candidates provided with the new diplomas will be capable of rendering equally valuable services in scientific libraries as they would in ordinary libraries for which they are better qualified due to more extensive experience in literary disciplines. The solution can be reached only by selecting for positions in scientific libraries or in scientific divisions of general libraries, only those candidates who have fulfilled certain special requirements as for example those who possess a scientific diploma similar to P.C.B., a sufficiently good knowledge of the history of science and its bibliography, and, naturally, sufficient experience in some specialized library which has made it possible for the candidate to become familiar with the methods of scientific work.

However it would be impossible to create this new category of librarians without taking very strict measures to provide for them positions corresponding to their qualifications and without the clear understanding that these positions would have the same advantages for making a career and the same conditions for advancement as the positions of librarians devoted more strictly to literary disciplines. It seems

THE NEEDS OF SCIENTIFIC LIBRARIES (continued)

to us that the creation of such positions is absolutely necessary both in general libraries in Paris where they are at present nonexistent as well as in large provincial libraries where their absence is more felt due to the lack of specialized libraries, which at any rate exist in the capital. We do not wish to decide whether these new positions should be created by diminishing the number of already existing positions. It is the affair of the administration of the libraries to solve this problem and to see what they can do to give to science the place which it deserves. It is essential that the position of a scientific librarian should in no way be inferior to that of a literary librarian, that scientific positions should attract capable persons and not serve as consolation to those who show themselves unfitted for other positions.

On the other hand in specialized scientific libraries it will be necessary to establish absolutely new positions, obviously entailing additional expenditures. Most of the scientific libraries have only one librarian (the same as at the time when they were founded) who is sometimes qualified as chief librarian, and is charged with all the duties which, elsewhere, would be distributed among numerous employees possessing varied qualifications. People seem unable to understand that acquisitions, donations and bequests have frequently increased tenfold the original deposit, that important deposits of manuscripts have been built up which require very painstaking work before they can be utilized, and that iconographic treasures have accumulated requiring very careful attention. The librarian remains alone, faced with all these manifold duties the same as when he had to take care of only several thousand volumes. However, since it is necessary to ensure a current service and to enable him to use at least a part of the extensive material which has accumulated in the storehouse, he is grudgingly accorded two types of collaborators. Of one type are the young men and women who have received their technical diploma and who do not lack either in intelligence or willingness but who, due to the uncertainty of their positions and the low salaries, will seek positions elsewhere as soon as they have completed their required apprenticeship and have become capable of rendering real service to the library. Of the other type are those to whom the low salaries of the positions serve as a pretext not to present any diploma and not to show any real ability and who, with a few happy exceptions, should be placed in some work suited to their real capacity.

It would seem that scientists who get so much benefit for their work from the specialized libraries, when the latter are properly managed, should be most active in demanding the far-reaching reforms which we have set forth. Unfortunately it is a fact that scientists too often consider that expenditures for the library and its personnel reduce the funds reserved for the laboratories and for the extension of real scientific work. This erroneous opinion unfortunately weighs heavily on the development of scientific libraries and to a certain degree is responsible for their deficiencies.

THE NEEDS OF SCIENTIFIC LIBRARIES (continued)

As much as our libraries lack a technical personnel sufficiently large to assure the carrying out of the manifold duties required for the rational utilization of the deposit, collections and sufficiently secure in their positions to devote themselves to their duties without reservations so almost in the same degree do our scientific libraries lack a subordinate personnel large enough to guard the reading rooms, to keep the premises of the library in perfect cleanliness and to attend to the books in the different ways required for their preservation. Here also it seems one must be content merely with the granting of what is absolutely necessary for the existence of the library.

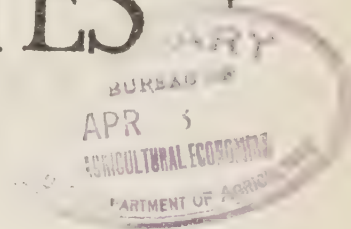
Finally, scientific libraries which have a keen feeling of self-respect should carry on their work only with the most up-to-date and perfect equipment and have only such installations as are consistent with the latest requirements of hygiene. These innovations which can be seen in the library now being established at the Maison de la Chimie are considered quite exceptional by other libraries, too modest, no doubt, to demand them as indispensable. It is evident, however, that a certain amount of expenditures for such improvements would certainly affect the performance of the work.

It is evident that the realization of the reforms to which we have alluded is prevented by the eternal question of money which has weighed on scientific libraries from their very beginning, when they were the "poor relatives" for which even small sacrifices appeared unnecessary and affected them during the periods of prosperity as well as during the periods of depression. Precisely, because we are now passing through one of these periods of depression our needs must be expressed more forcefully and with less restraint. There is still another factor which is more important than the lack of money. This is the lack of insight in distinguishing among all the possible expenditures, those which will meet the most essential needs of human progress and those which are capable of bearing rich fruit.

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AGRICULTURAL LIBRARY NOTES

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ISSUED MONTHLY
BY THE
UNITED STATES DEPARTMENT OF AGRICULTURE LIBRARY

WASHINGTON
D. C.

PRINCIPAL LIBRARY ACCESSIONS

Agricultural Education

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COULTER, M. C. The story of the plant kingdom. Chicago, University of Chicago press, 1935.

GRANER, E. A. Contribuição para o estudo cytologico da mandioca. Piracicaba, Universidade de São Paulo, Escola superior de agricultura "Luiz de Queiroz," 1935.

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- RIVERA, V. Radiobiologia vegetale. Roma, Bardi, 1935. (Each chapter has a summary in Italian, French, English and German)
- SANYAL, D., and GHOSE, R. Vegetable drugs of India. Calcutta, Chatterji, 1934.
- SMALL, J. K. Ferns of the vicinity of New York. Lancaster, Pa., Science press, 1935.
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Cereals

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City, Mo., 1935.

ODUM, H. W. The regional approach to national social planning. New York,
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GT. BRIT. MINISTRY OF HEALTH. COMMITTEE ON QUALIFICATIONS, RECRUITMENT, TRAINING AND PROMOTION OF LOCAL GOVERNMENT OFFICERS. Report. London, 1934.

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- GREENWELL, R. A., sister. A flora of Nelson county, Kentucky. Washington, 1935. (Catholic university of America. Biological series no. 20) Diss. (Ph. D.) Catholic university of America, 1935.
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- Journal of industrial hygiene. Baltimore, Md. Changed to Journal of industrial hygiene and toxicology with vol. 18, no. 1, Jan. 1936.
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- Southern Appalachian botanical club. Journal. West Virginia University, Morgantown, W. Va. 8° vol. 1, no. 1, Jan. 1936. Dues, including subscription to the Journal, \$2.00 a year.
- Taylor society. Bulletin of the Taylor society and of the Society of Industrial engineers. New York. Discontinued with vol. 1, no. 7, Nov. 1935. Continued by Society for the advancement of science. Journal.

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The February issue of "Rural America" contains tributes to the late Kenyon L. Butterfield, the remainder of the issue being devoted to a review of the country life movement in the United States, edited by Charles Josiah Galpin. Among the articles included in this review the following are of particular interest to librarians: Textbooks in Rural Sociology, by Carle C. Zimmerman, Harvard University; Books of Farm Life, by Caroline B. Sherman, Bureau of Agricultural Economics, U. S. Department of Agriculture; Rural Library Service, by Julia Wright Merrill, American Library Association; and Rural Influence in Contemporary American Art, by Grant Wood, Artist, Graphic and Plastic Arts, Iowa State University.

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PUBLICATIONS BY U. S. DEPARTMENT OF AGRICULTURE WORKERS
APPEARING OUTSIDE THE DEPARTMENT*

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- Great gain in farm income. Tex. Citricult. and Farming 12(8): 8. Feb. 1936.
- Problems of a high tariff creditor nation. Farm and Ranch 54(22): 9, Nov. 15, 1935.
- Processing taxes - real and imaginary. Farm and Ranch 54(23): 16. Dec. 1, 1935.
- Trading with our neighbor. Nation's Agr. 11(5): 14-15, 28. Feb. 1936.
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- CAMPBELL, J. P. Agricultural-industrial relations. President's address. Assoc. South. Agr. Workers Proc. (1933/35)34/36: 349-354. 1935.
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The *Publishers' Weekly* for Feb. 15, 1936, has an article called "The Booksellers' Garden Book Calendar" and one about garden book promotion plans and new garden books. The issue for Mar. 7, 1936, has an article entitled "Yarbs and Simples" which contains interesting and helpful comments on timely modern herb books as well as references to a few of the early herbals.

"Cash in on Dog Shows", an article in the *Publishers' Weekly* for Feb. 22, 1936, contains a useful list of books on dogs.

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California

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Colorado

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Fort Collins, 1936.

PALMER, M. A., and McCAMPBELL, S. C. Control of the Douglas fir aphid.
(Colo. Agr. Col. Ext. Circ. 99-A.) Fort Collins, 1936.

McCAMPBELL, S. C. Oyster-shell scale control. (Colo. Agr. Col. Ext. Circ.
100-A.) Fort Collins, 1936.

McCAMPBELL, S. C. Grape leaf-hopper control. (Colo. Agr. Col. Ext. Circ.
101-A.) Fort Collins, 1936.

McCAMPBELL, S. C. Control of the shot-hole borer. (Colo. Agr. Col. Ext.
Circ. 102-A.) Fort Collins, 1936.

McCAMPBELL, S. C. Control of the San Jose and closely related scales. (Colo.
Agr. Col. Ext. Circ. 103-A.) Fort Collins, 1936.

McCAMPBELL, S. C. European elm scale control. (Colo. Agr. Col. Ext. Circ.
104-A.) Fort Collins, 1936.

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Fort Collins, 1936.

McCAMPBELL, S. C. Pine-leaf scale control. (Colo. Agr. Col. Ext. Circ. 106-A.)
Fort Collins, 1936.

Delaware

COMSTOCK, H. L. Clothing handbook for 4-H girls. (Del. Univ. Agr. Ext. Bul. 22.)
Newark, 1935.

MacCREARY, D. The Japanese beetle, essential facts concerning its life
history and control. (Del. Univ. Agr. Ext. Circ. 31.) Newark, 1935.

Fertilizer recommendations. (Del. Univ. Agr. Ext. Inform. Card 22.) Newark,
1935.

Apple spray program. (Del. Univ. Agr. Ext. Inform. Card 23.) Newark, 1935.

Peach spray program. (Del. Univ. Agr. Ext. Inform. Card 24.) Newark, 1935.

Grape spray program. (Del. Univ. Agr. Ext. Inform. Card 25.) Newark, 1935.

Lime. (Del. Univ. Agr. Ext. Inform. Card 26.) Newark, 1935.

Vaccinate pullets against pox at 8 to 12 weeks. (Del. Univ. Agr. Ext. Inform.
Card 27.) Newark, 1935.

*Prepared in Office of Experiment Stations Library.

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Florida

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Georgia

GANNON, A. Georgia's poultry improvement program. (Ga. Agr. Col. Ext. Circ. 262.) Athens, 1936.

Illinois

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In cooperation with the Illinois State natural history survey.
KOEHLER, B. Seed treatments for farm crops. (Ill. Agr. Col. Agr. Expt. Sta. and Ext. Serv. Circ. 444.) Urbana, 1936.

Indiana

GANNON, E. A., and AINSWORTH, H. F. Dairy calf club manual. (Purdue Univ. Dept. Agr. Ext., Ext. Bul. 143, 3d rev. ed.) Lafayette, 1935.
WIANCKO, A. T., and AMICK, W. R. 4-H corn club manual. (Purdue Univ. Dept. Agr. Ext., Ext. Bul. 157, 3d rev. ed.) Lafayette, 1936.
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HARPER, C. Sheep club manual. (Purdue Univ. Dept. Agr. Ext., Ext. Bul. 184, rev. ed.) Lafayette, 1935.
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SKINNER, J. H. Agricultural extension work in Indiana. Report of the director July 1, 1934 to June 30, 1935. (Purdue Univ. Dept. Agr. Ext. [unnumbered] Oct. 1, 1935. Lafayette.

Kansas

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Kentucky

OLNEY, A. J. Tomato project for 4-H clubs. (Ky. Agr. Col. Ext. Circ. 126, rev.) Lexington, 1935.
LACY, E. Clothing manual, 4-H clubs. (Ky. Agr. Col. Ext. Circ. 194, rev.) Lexington, 1935.
HARRIS, C. E. Producing profitable pullets. (Ky. Agr. Col. Ext. Poultry Leaflet 4, rev.) Lexington, 1935.

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RICHARDSON, H. L. Poultry houses. (Maine Agr. Col. Ext. Bul. 218). Orono, 1936.

Maryland

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Maryland poultry standardization and disease control plan. (Adopted by the Maryland Poultry certification board.) (Md. Univ. [Agr.] Ext. Circ. 112) College Park, 1935.
Report of Maryland poultry standardization and disease control and eradication work to January 1, 1936. (Md. Univ. [Agr.] Ext. Circ. 113.) College Park, 1936.

Massachusetts

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BANTA, L. Artificial lighting for poultry. (Mass. State Col. Ext. Leaflet 141, rev.) Amherst, 1935.
VONDELL, J. H. Quality eggs. (Mass. State Col. Ext. Leaflet 160) Amherst, 1935.

Michigan

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BELL, A. J. Care and repair of the mowing machine. (Mich. State Col. Ext. Bul. 153) East Lansing, 1935.
The agricultural outlook for 1936. (Mich. State Col. Ext. Agr. Econ. News for Mich. no. 8) East Lansing, 1936.

Minnesota

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Missouri

- WEAVER, L. A. Brood sow and litter. (Mo. Agr. Col. Ext. Circ. 220, 3d ed [rev.]) Columbia, 1935.
EWING, T. A., and BURCH, J. W. The Missouri plan of sheep improvement. (Mo. Agr. Col. Ext. Circ. 333.) Columbia, 1936.

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Boys' and girls' 4-H club work, preliminary announcement. (Mo. Agr. Col. Ext. M-95.) Columbia, 1935.
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New Hampshire

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SANBORN, M. L., and ELLIS, E. 4-H canning guide (Canning instructions no. 1.) (N. H. Univ. [Agr.] Ext. Junior Circ. 10 (rev.) Durham, 1935.

New York

- JENNINGS, B. A. Milk-house construction. Plan for a 2-can milk house. (N. Y. Agr. Col. (Cornell) Ext. Bul. 330, Sup. I.) Ithaca, 1935.
HARPER, M. W. Care and management of the farm horse. (N. Y. Agr. Col. (Cornell) Ext. Bul. 336.) Ithaca, 1935.
HAMILTON, W. J., jr. Field-mouse and rabbit control in New York orchards. (N. Y. Agr. Col. (Cornell) Ext. Bul. 338.) Ithaca, 1935.
The New York state 1936 agricultural outlook. (N. Y. Agr. Col. (Cornell) Ext. Bul. 340.) Ithaca, 1936.
ROMAN, N. M. The selection and arrangement of furniture. I. The girl's room series for 4-H club work. (N. Y. Agr. Col. (Cornell) Junior Ext. Bul. 50.) Ithaca, 1935.
References, p. 33-34.
ROMAN, N. M. Window treatment. III. The girl's room series for 4-H club work. (N. Y. Agr. Col. (Cornell) Junior Ext. Bul. 52.) Ithaca, 1935.
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ROMAN, N. M. Smaller furnishings for a girl's room. V. The girl's room series for 4-H club work. (N. Y. Agr. Col. (Cornell) Junior Ext. Bul. 54.) Ithaca, 1935.
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HUNTER, W. N. Clothing selection. (N. C. Agr. Col. Ext. Misc. Pamph. 22.) State College Station, Raleigh, 1936.
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North Dakota

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Ohio

- GARVIN, A. L. Cooking for Ohio families. (Ohio Agr. Col. Ext. Bul. 169.)
Columbus, 1936.
- CLARK, E. M., and BIEBRICHER, A. Home made rugs. (Ohio Agr. Col. Ext. Bul. 171.) Columbus, 1936.
- HARSHFIELD, H. W. Nature I. Our outdoor neighbors. (Ohio Agr. Col. Ext. 4-H Circ. 77, rev.) Columbus, 1935.

Oklahoma

- OSBORN, L. W. 4-H crop club manual series. Corn in Oklahoma. (Okla. Agr. Col. Ext. Circ. 324.) Stillwater, 1935.
- MERRIFIELD, M. Renovation and remodeling. Dyeing. (Okla. Agr. Col. Ext. Circ. 326.) Stillwater, 1935.
- McPHETERS, W. H. Baiffles for terrace outlet control. (Okla. Agr. Col. Ext. Circ. 328.) Stillwater, 1935.

Pennsylvania

- BAKER, A. L. Pennsylvania 4-H clubs. (Penn. State Col. Ext. Circ. 100, rev.) State College, 1935.
- RUEF, J. U., and MECARTNEY, J. L. Grape culture. (Penn. State Col. Ext. Circ. 157.) State College, 1935.
- DICKEY, J. B. R. Lime for sour soils. (Penn. State Col. Ext. Circ. 159.) State College, 1935.
- GRAU, F. V. Lawns. (Penn. State Col. Ext. Circ. 160.) State College, 1936.
- NISSLEY, W. B. Irrigation: Portable overhead. (Penn. State Col. Ext. Leaflet 37.) State College, 1935.
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South Dakota

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Texas

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- CLAYTOR, B. Mattress making on the farm. (Texas Agr. Col. Ext. [Circ.] C-105.) College Station, 1935.
- ROSBOROUGH, J. F. Making a garden plan. (Texas Agr. Col. Ext. [Circ.] C-109.) College Station, 1936.

West Virginia

- HUMPHREYS, G. Let's plan what to eat. (W. Va. Agr. Col. Ext. Good Living Ser. IV, Lesson no. 2, Adventures in Everyday Living.) Morgantown [1936]
- HUMPHREYS, G. Time out of the kitchen. (W. Va. Agr. Col. Ext. Good Living Ser. IV, Lesson no. 3, Adventures in Everyday Living.) Morgantown [1936]

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ANNIVERSARY OF ORANGE JUDD COMPANY

The following extracts are from an article about the Orange Judd Company which appeared in the Publishers' Weekly for February 15, 1936; p. 800-803:

"This is an anniversary year for The Orange Judd Publishing Company. For a hundred years the firm has been publishing books on farming, gardening and kindred subjects.

"The company traces its ancestry back to 1836 when Charles M. Saxton set himself up in business as bookseller and publisher of agricultural books at 121 Nassau Street in New York. Many publishing firms of the day issued occasional books on farming and agriculture, but Saxton seems to have been the first publisher in the country to specialize in books of this type. He advertised himself as the only publisher of agricultural books and whether or not he was alone in the field there can be no doubt that his firm, under his own direction and later under Orange Judd, was outstanding, and no one would want to dispute his position as a pioneer. Saxton remained in business at the Nassau Street address until 1843 when he moved to 205 Broadway. About this time he entered into partnership with Early E. Miles and for a year or more the firm bore both men's names as booksellers and publishers. But Miles shortly sold out his interest to Saxton and the business was known as Charles M. Saxton, Agricultural Book Publishers.

"At 205 Broadway Saxton found located another person vitally interested in agricultural matters, A. B. Allen, who with R. L. Allen was editor of the American Agriculturist. This journal... had been first issued the year before, in 1842. Saxton became its publisher, for a while, although Allen and his family retained actual ownership. G. A. Peters bought [brought?] out the first four numbers. Beginning with Volume 1, Number 5, Saxton and Miles are mentioned on the masthead as publishers. Thus was inaugurated the connection between the publishing house and the American Agriculturist, a relationship that became final with Orange Judd and continued after him until 1921.

"It was the paper which brought Orange Judd into the firm. In 1853 he became Allen's assistant on the American Agriculturist... At first he did all the office work, including wrapping and addressing the entire edition by hand. Three years later he became its editor and publisher. Between 1856 and 1864 he was to run the circulation from less than 1,000 to more than 100,000. At the same time Orange Judd began to publish also a few agricultural books. Saxton continued his own very active business. After the sale of the American Agriculturist to Orange Judd, Saxton issued another paper, the Horticulturist, a monthly. Copies of this agricultural journal are now so rare that the Orange Judd Company has not been able to find a copy, though they have come across numerous advertisements for it. At one time Saxton was advertising seventy-six farming books; among them were the American Farm Book, Youatt's Struction Diseases of the Horse, Breeds, and On Pigs. These books were prominent for years on the Orange Judd list.

"When Saxton died, in 1864, Orange Judd bought out his business and combined the Saxton and Judd lists, including the American Agriculturist, into one publishing venture and gave the firm his own name. He continued all the Saxton books which had not dropped out of print. As new impressions were necessary, the Orange Judd imprint was substituted for the Saxton and so the line of agricultural books is unbroken from Saxton's first venture down to the latest book which bears the firm's imprint".

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TRANSLATIONS

Following is a selected list of copies of translations recently translated for the Bureau of Entomology and Plant Quarantine and deposited in the Library of the Bureau.

- Berland, Lucien. Etude en avion de la faune entomologique aérienne. [Aeroplane studies of the entomological fauna of the air.] Paris. Académie des sciences. Comptes rendus vol. 198, no.25, p.2201-2203, June 18, 1934.
- Blunck, H. Lebensweise und bekämpfung der drahtwürmer. [Manner of life and combating of wireworms.] Biologische reichsanstalt für land-und forstwirtschaft. Berlin-Dahlem. Flugblatt no. 76, 1925.
- Blunck, H., and Subklew, W. Lebensweise und bekämpfung der drahtwürmer. [The mode of life and method of control of wireworms.] Biologischen reichsanstalt für land-und forstwirtschaft. Berlin-Dahlem. Flugblatt no.76, 3d rev. ed. 1934.
- Breidert, Die dasselbekämpfung. [Warble fly control.] Berliner tierärztl. wochenschr., vol. 49, no.27, p.425-426. 1933.
- Calvino, Mario. Un triunfo de la observación inteligente sobre el "pasador" del tabaco. [The triumph of an intelligent observation on the tobacco wireworm.] Revista agric. com.y trabajo. (Havana, Cuba). vol.5, no.4, p.15. 1922.
- Langenbuch, R., and Subklew, W. Zur frage der drachwurmbekämpfung mit kali-salzen. [On the question of controlling wireworms with potassium salts.] Nachrichtenblatt für den deutschen pflanzenschutz-dienst, Jahrg. 14, no.3, p.21-22. March 1934.
- Herrera, Alfonso L. Organos receptores en las patas de los insectos. [Receptive organs in the legs of insects.] Academia Antonio Alzate. Memorias vol. 53, p.41-43, (1931).
- Horst, Albert. Zur kenntniss der biologie und morphologie einiger elateriden und ihrer larven. (Insbesondere untersuchungen über Agriotes obscurus L.) [Towards an understanding of the biology and morphology of several elaterids and their larvae. (In particular, examinations of Agriotes obscurus L.)] Archiv für naturgeschichte, Abt. A., Bd. 88, hft. 1, p.1-90, 1922.
- Jaroslavtzev, G.M. Bodenfumigation als bekämpfungsmethod mit den drahtwürmern. [Soil fumigation as a control for wireworms.] Reports on applied entomology. vol.4, no.2, p.567-573, 1930.
- Kolbe, F. Hypoderma bovis und seine bekämpfung III. [Hypoderma bovis and its control. III.] Zeitschr. fleisch u. milchhygiene., vol.43, no.11, p.209-211, 1933.
- Korschelt, E. Der gelbrand Dysticus marginalis. vol.1-2, 1923-24. Vol.1, Chapter 3, Die chitinskellet, [The chitinous skeleton] p.16-79. Vol. 1, Chapter 19, Der darmkanal des kafer und der larve [The digestive tract of the beetle of the larva.] p.39-145.
- Langenbuch, R. Beitrage zur kenntniss der biologie von Agriotes lineatus L. und Agriotes obscurus L. [Contributions to the knowledge of the biology of Agriotes lineatus L. and Agriotes obscurus L.] Zeitschrift für angewandte entomologie. vol.19, no.2, p.278-300, June 1932.
- Levtshuk, J. Ksravnitel'noi anatomii polovogo apparata shchelkanov (Elateridae) [Contributions to the comparative anatomy of the genitalia of Elateridae.] Revue russe d'entomologie. vol.24, no.3-4, p.135-155, 1930.

TRANSLATIONS
(continued)

- Merkenschlager, F. Zur drahtwurmfrage. [On the wireworm question.] Naturwissenschaftliche korrespondenz. vol.7, p.2-3, Jan. 1926.
- Reislager, L. Beitrag zur bekämpfung der dasselfliegen des rindes in Oesterreich. [Contribution to the control of the warble flies in Austria.] Wiener tierärztl. monatsschrift, vol.20, no.18, p.641-650, 1933.
- Schwarz, Otto. Revision der paläarktischen arten der elateriden-gattung Melanotus Eschsch. [Revision of the palaearctic varieties of the elaterid genus Melanotus Eschsch.]. Deutsche entomologische zeitschrift, 1892, p.145-164.
- Schwerdt, Die bekämpfung der dasseln. [Warble fly control.] Berliner tierärztl. wochensch., vol.49, no.14, p.209-211, 1933.
- Subkiew, Werner. Agriotes lineatus L. und Agriotes obscurus L. (Ein beitrag zu ihrer morphologie und biologie.) [Agriotes lineatus and Agriotes obscurus L. A study of their morphology and biology.] Zeitschrift für angewandte entomologie. Bd.21, hft.1, p.96-122, June 1934.
- Subkiew, W. Eine neue zucht-und versuchsanlage für bodenschädlinge. [A new arrangement for the rearing and testing of soil pests.] Anzeiger für schädlingkunde, Jahrg. 10, no.7, p.83-85. 1934.
- Subkiew, W. Physiologische-experimentelle untersuchungen in einigen elateriden [Physiological experimental investigations on several elaterids (Agriotes obscurus L., Agriotes lineatus L., Corymbites tessellatus L., and Limonius spec.)] Zeitschrift für wissenschaftliche biologie. Abt. A. Zeitschrift für morphologie und ökologie der tiere, Bd. 28, hft. 2, p.184-228, 1934.
- Subkiew, W. Ueber schauftrenten einiger bekannter drahtwurmarten (Corymbites tessellatus L. und Ischnodes sanguinicollis Panz.) [Concerning the damage of lesser known wireworm species. (Corymbites tessellatus L. and Ischnodes sanguinicollis Panz.)] Zeitschrift für pflanzenkrankheiten (pflanzenpathologie und pflanzenschutz), vol.44, no.5, p.227-231, 1934.
- Viala, P., and Marsais, P. Sur la court-noue, maladie parasitaire de la vigne. (English abstract in Library of Bureau of Entomology and Plant Quarantine.) Paris. Acad. des sciences. Comptes rendus v.198, no.1, p.26-29, Jan. 3, 1934.

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The Bulletin of the New York Public Library for February 1936 has an article on a ten-year test of bindings. It states that the test shows conclusively: (1) There's nothing like leather - well tanned leather - for book binding; (2) Domestic leather of bark tannage is not good for binding; (3) Animal and vegetable oils applied to leather bindings are beneficial, while mineral oil seems to be harmful; (4) Increased volume-weight adds much to wear and tear, and decreases the life of the binding. Volumes of moderate weight last longer; (5) The continued application of oil to leather seems to soften the size and to cause the gold lettering to rub off. The test was made in connection with a ten-volume set of the Century Dictionary.

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SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
of the U. S. Department of Agriculture
received during February, 1936, exclusive of Bibliographies*
and current issues of serials.**

Office of the Secretary

Agriculture: a local activity and a national problem. Address by Henry A. Wallace, at a meeting sponsored by the Indiana farm bureau at Indianapolis, Indiana, February 12, 1936, broadcast over the Columbia broadcasting system. 19 p.

Another chapter in agriculture. An address by M. L. Wilson at the observance of farmers' week at the Northwest school of agriculture, Crookston, Minn., on Feb. 4, 1936. 27 p.

Agricultural Adjustment Administration

Some economic aspects of marketing control for the Florida celery industry. By J. R. Greenman. 1935. 53 p. (Issued by General crops section)

Bureau of Agricultural Economics

Average prices received by farmers for livestock and livestock products, 1935, with comparisons. 1936. 10 p. (Issued by Crop reporting board)

Dairy and poultry market statistics, 1935 annual summary. Collected and compiled by Division of dairy and poultry products. 1936. 39 p.

Driven-in receipts of livestock, 1935. Compiled by the Statistical section, Livestock, meats and wool division. 1936. 28 p.

Exporting fresh fruits and vegetables from the United States to Canada. By F. G. Robb... 1936. 11 p. (Address, Canadian fruit and vegetable jobbers' association, Toronto, Canada, Jan. 15, 1936)

Flax, soybeans, peanuts and cottonseed outlook charts for use with the Agricultural outlook for 1936. 1935. 20 p.

Fruits and vegetables in the program of reciprocal trade agreements. By L. A. Wheeler. 1936. 6 p. (Address, Annual business meeting of the American fruit and vegetable shippers association, Chicago, Ill., Jan. 15, 1936)

Fruits: apples, citrus, peaches, etc. outlook charts for use with the Agricultural outlook for 1936. 1935. 53 p.

Marketing Texas vegetables (beans, beets, broccoli, carrots, cucumbers, green corn, peas, spinach, mixed vegetables) Brief review of the 1934-35 season. By W. D. Gooch. 1936. 26 p. (In cooperation with the Texas Department of agriculture, Markets and warehouse division)

*Bibliographies included in general list of bibliographies on page 136.

**For a list of the principal series issued regularly, see v. 9, no. 10, p.354.

SELECTED LIST OF MILEOGRAPHED PUBLICATIONS

Bureau of Agricultural Economics
(Continued).

- The outlook for potato prices in 1936. 1936. 2 p.
- Ratio of assessed value to consideration in bona fide transfers of farm real estate. Data for 283 selected counties, 1933 or earlier years. 1936. 192 p. (Issued by Division of land economics)
- Rice, dry beans and broomcorn outlook charts for use with the Agricultural outlook for 1936. 1935. 13 p.
- Rural zoning: Controlling land utilization under the police power. By C. I. Hendrickson... 1935. 14 p. (Address, Annual meeting, American farm economic association, New York, Dec. 27-30, 1935.)
- Studies of terminal marketing problems. By Frederick V. Waugh... 1936. 7 p. (Address, Annual meeting, National league of wholesale fresh fruit and vegetable distributors, Baltimore, Jan. 8, 1936. (Issued by Division of marketing research)
- Transfers of farm real estate. Number of properties and acreage transferred, by type of transfer, and average consideration in bona fide sales. Data for 414 selected counties, for 1933 or earlier years. 1936. 115 p. (Issued by Division of land economics)
- United States standards for brown rice. Established Sept. 15, 1927. In effect, February 1936. 1936. 7 p. (Issued by Grain division)
- Why I want my boy to be a farmer. Excerpts from an address by Dr. O. E. Baker on the Farm and home week program at the University of Wisconsin, Feb. 7, 1936. 9 p.
- The world cotton situation. Part II. Cotton production in the United States (preliminary) 1936. v.p.

Bureau of Agricultural Engineering

- Outlook for improving farm homes. By S. P. Lyle. Presented at the Farm family living outlook conference, Washington, D. C., Oct. 28, 1935. 8 p.
- Portable sprinkling irrigation from a train of sleds. By F. E. Staebner. 1935. 5 p. (Issued by Division of drainage)

Bureau of Animal Industry

- Artificial insemination of fowls. 1936. 3 p. (A.H.D. no. 19) (Issued by Animal husbandry division)
- Mineral requirements of animals. 1936. 3 p. (A.H.D. no. 17) (Issued by Animal husbandry division)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
(Continued)

Bureau of Biological Survey

Forestry and game management. By Herman H. Chapman. 1936. 4 p. (Wildlife research and management leaflet BS-33) Reprinted from the Journal of forestry 34(2): 104-106, Feb. 1936.

A national program for wildlife restoration. An address by Ira N. Gabrielson, delivered at the American wildlife conference, Washington, D. C., Feb. 7, 1936. 8 p.

Bureau of Chemistry and Soils

Definitions of terms used in land utilization. By Charles E. Kellogg and Carlton P. Barnes. 1936. 4 p. (In cooperation with Land use planning section, Division of land utilization, Resettlement administration)

Bureau of Dairy Industry

Centering the testing day in calculating production records in dairy herd-improvement associations. By J. F. Kendrick, 1936. 10 p. (BDIM-693) (Issued by Division of dairy herd improvement investigations)

Estimating the weights of dairy cows from heart-girth measurements. By J. F. Kendrick and J. B. Parker. 1936. 2 p. (BDIM-695) (Issued by Division of dairy herd improvement investigations)

Information on dairy herd-improvement associations. By J. F. Kendrick. 1936. 10 p. (BDIM-692)

Organizing cooperative dairy bull associations. By Joel G. Winkjer. 1936. 8 p. (BDIM-691) (Issued by Division of dairy herd improvement)

Bureau of Entomology and Plant Quarantine

Methods and apparatus used in identifying large numbers of leafhoppers of the genus Empoasca. By F. W. Poos, Nancy H. Wheeler, and J. W. Scrivener. 1936. 3 p. (ET-72) (Issued by Division of cereal and forage insect investigations)

New apparatus and technique for inflating larvae. By George H. Plumb. 1936. 3 p. (ET-75)

Preventing the distribution of pine tip moths on nursery stock. By L. G. Baumhofer. 1936. 4 p. (E-366) (Issued by Division of forest insect investigations)

The shipping of package bees. By Warren Whitcomb, jr. 1935. 7 p. (E-363) (Issued by Division of bee culture)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Entomology and Plant Quarantine (Continued)

Supplementary control measures for reducing insect infestation in the flour mill. By R. T. Cotton and Geo. B. Wagner. 1935. 5 p. (E-362)
Issued by Division of cereal and forage insect investigations.

A third index of patented mothproofing materials. By R. C. Roark and R. L. Busbey. 1936. 104 p. (Issued by Division of insecticide investigations)

Office of Experiment Stations

List of agricultural experiment stations in the United States, Feb. 1936. 2 p.

Navajo trading. Report by B. Youngblood, assisted by A. L. Walker and Wm. Brostrom. 1935. 128 p.

Extension Service

County home economics extension programs. Excerpts from Annual reports of state and county extension agents, 1934. Prepared by Extension, studies and teaching section, 1936. 20 p. (Extension service circular 233)

Foreign trade policy for American agriculture. By John D. Black. 1935. 13 p. (Talk given at School for extension workers, U. S. Department of agriculture, Washington, D. C., October 17, 1935).

Marketing, price and production programs for agriculture. By John D. Black. 1935. 11 p. (Talk given at School for extension workers, U. S. Department of agriculture, Washington, D. C., October 18, 1935)

Motion picture films available on insects and spiders. 1936. 10 p.

Professional training for negro extension work. By Erwin H. Shinn. 1936. 11 p. (Extension service circular 235)

Recent developments in rural electrification. By David S. Weaver. 1936. 7 p. (Paper presented before the Southern section, American society of agricultural engineers, meeting as a section of the Association of southern agricultural workers, Jackson, Miss., Feb. 5-7, 1936)

Report of conference on wind-erosion control, Amarillo, Texas, January 18 and 19, 1936. 5 p.

Shall agricultural adjustment be continued? By John D. Black. 1935. 13 p. (Talk given at School for extension workers, United States Department of agriculture, Washington, D. C., Oct. 16, 1935)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

(Continued)

Forest Service

Central states forest experiment station annual investigative report for 1935 and program for 1936 (calendar years) 1936. 18 p.

Effect of extractive substances in certain woods on the durability of paint coatings. By F. L. Browne. 1935. 7 p. (Issued by Forest products laboratory)

Fifty years ahead - a research viewpoint. By Carlile P. Winslow. 1935. 15 p. (Issued by Forest products laboratory) Address delivered before Pacific logging congress, Vancouver, B.C., Oct. 25, 1935.

Fish stream improvement handbook. 1936. 39 p.

Forestry facts for young folks. By Nina Owen. 1936. 16 p.

An improved design for a portable band mill. 1935. 2 p. (Issued by Forest products laboratory)

Pulping and nonpulping cordwood volume in the longleaf pine region of Mississippi and east Louisiana. By Southern forest survey staff. 1936. 9 p. (Forest survey release no. 18) Issued by Southern forest experiment station.

The raindrop family. Adapted by Nina Owen. 1936. 6 p.

Statistics on gum naval stores production. By Southern forest survey staff. 1935. 13 p. (Southern forest experiment station. Forest survey release no. 17)

White pine production cost and method studies in New England. Preliminary report by Forest products laboratory. 1936. 20 p.

Grain futures administration

Seasonal tendencies in wheat futures prices, by H. S. Irwin. 27 p. 1936.

Bureau of Plant Industry

Comparison of northern and southern pasture grasses, particularly as to their composition and the effect of fertilizer applications on this factor. By H. N. Vinall and H. L. Wilkins. 1936. 6 p.

Comparison of winter-wheat varieties grown in cooperative plot and nursery experiments in the hard red winter-wheat region in 1935. 1936. 53 p. (Issued by Division of cereal crops and diseases)

Control of plum brown-rot. By John W. Roberts. 1936. 1 p. (Issued by Division of fruit and vegetable crops and diseases)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Plant Industry
(Continued)

- A digest of pasture research literature in the continental United States and Canada, 1885 to 1935. By A. J. Pieters, 1936. 130 p. (Issued by Division of forage crops and diseases)
- Gladiolus diseases. By Lucia McCulloch. 1936. 7 p. (Issued by Division of fruits and vegetable crops and diseases)
- Pear blight. By John W. Roberts. 1936. 2 p. (Issued by Division of fruit and vegetable crops and diseases)
- Plum black-knot. By John W. Roberts. 1936. 1 p. (Issued by Division of fruit and vegetable crops and diseases)
- Potato breeding - 1935. By F. J. Stevenson. 1935. 70 p. (Issued by Division of fruit and vegetable crops and diseases)
- Pyrethrum, its culture and possibilities as a crop in the United States. By A. F. Sievers. 1936. 5 p. (Issued by Division of drug and related plants)
- Results from cooperative wheat varietal experiments in the western region in 1935 with averages for 1931 to 1935. 1936. 87 p.
- Stocks for deciduous fruits under study at experiment stations. Compiled by G. E. Yerkes. 1936. 20 p. (Issued by Division of fruit and vegetable crops and diseases)

Bureau of Public Roads

- Highway progress responsibility. Paper presented by Thos. H. MacDonald at annual meeting of Association of highway officials of North Atlantic states, Atlantic city, New Jersey, Feb. 12, 1936. 15 p.
- A national system of transportation. Radio address, Nov. 5, 1935, by Thos. H. MacDonald. 1935. 8 p.
- A review of highway progress. By Thos. H. MacDonald at Annual convention of American road builders association, Cleveland, Ohio, Jan. 20, 1936. 12 p.

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RURAL POETRY IN AMERICA

By Caroline B. Sherman, Associate Agricultural Economist,
Bureau of Agricultural Economics.

Rural poetry to me means poetry that deals with the farm or with farm people or with the country neighborhood. Nature has been an inspiration to poets of every kind, of course, and it has its effect on rural verse, too, but poems of nature alone do not make rural poetry, within our sense of the term.

Almost from the time American poetry was worthy of the name, a part of it has been devoted to the farm and to the rural neighborhood. Whittier was probably the first rural poet that many of us knew, with his whistling Barefoot Boy and his well-beloved story of an isolated farm family in Snow-bound. The richness of family life at its simple best is there, for Whittier is the true farm and fireside poet. Several others of that eloquent day come to our minds, especially William Cullen Bryant and Henry Wadsworth Longfellow, as occasionally writing country poems that will long be remembered.

Others found their first rural verse peculiarly close and interesting because it was written by two little farm girls up in the Berkshires—Elaine and Dora Read Goodale. Their verses of Sky Farm and the thoughts it fostered were taken up by exacting New England publishers. Three volumes, Apple Blossoms, In Berkshire with the Wildflowers, and All Round the Year; Verses from Sky Farm, were treasured volumes on childhood shelves. After many years devoted to work among the Indians and the Southern mountaineers these sisters again publish rural poetry, Elaine (now Mrs. Eastman) in her Voice at Eve, and Dora in her latest book Test of the Sky. The rural verse does not predominate in these little volumes but can be found here and there, for they have never forgotten that they were farm-house born.

Farther to the South the early favorite among the rural poets was Sidney Lanier. He has been called the original southern agrarian. Although tinged with the mystical, and always melodious, and devoting his professional life to playing that gift of ancient times — the flute — he was clear-sighted in his feelings and warnings against industrialism and commercialism. We remember his poem Corn as perhaps his best-known of this kind. He accomplished the seemingly impossible by expressing a strong social doctrine in poetry that was liquid and mellifluous.

Following this lyrical period came the widely popular homely ballads related to the farm. John Hay's Pike County Ballads led the way. They were followed by Vill Carleton's Farm Ballads and Farm Festivals and James Whitcomb Riley's many poems devoted to farm people, farm industries, and neighborhood life. Riley has been called the People's Laureate. These writers broke away from the more classic earlier forms. There are those who would include them in no collection of poetry except a rural one. They used everyday American words and phrases, and their verse was usually straight narrative or it described rural events and scenes. But vocabulary, descriptions, and narratives were generally recognized as native and true.

RURAL POETRY IN AMERICA (continued)

These writers were mostly in the Middle West, but in the South Frank L. Stanton - sometimes called the people's poet - was writing in much the same way, in Massachusetts John Savary was often describing farm life and scenes in his verse, and in New York State John Townsend Trowbridge was writing appealing farm poetry typified by his Evening at the Farm. Perhaps the real contribution of these writers is found in the fact that they brought American poetry back to the people.

Then came a period of virile American verse by such writers as Vachel Lindsay, Carl Sandburg, and Robert Service. It dealt with phases of the frontier world rather than with the farm, but it is essentially related to the rural poetry of our Nation; and perhaps Walt Whitman's name should be mentioned in any such connection since so many look upon him as the leader in the emancipation of our poetry and its recasting into more vigorous forms.

Today some of the rather similar writing by Robert Tristram Coffin, and Edwin Arlington Robinson (with his several Pulitzer poetry awards), may be classed among the rural poetry. Some of Coffin's poems especially are truly of the farm. Much of the other current rural verse is excessively rugged, as Jesse Stuart's Man with a Bull Tongue Plow, the recent book of nearly 700 ballads dealing with the life and people of the Kentucky hills, and Paul Engle's American Songs, a Book of Poems.

This robust development in verse is, of course, closely related to the emphasis on realism in fiction. In verse, as in fiction, such emphasis is easily overdone. As we have for so long looked to poetry for melody, for music, for sheer delight, we perhaps regret the over-play of realism in poetry more than we do in fiction. We feel that fiction should be vital - should express life as it is - but we are not yet convinced that poetry is not preferably a creation of the spirit.

That fragile rural poems are still appreciated in some influential quarters was recently made evident. The John Burroughs award, given annually for the best piece of nature writing of the year, usually goes to well-known naturalists. But two years ago it went to a genuine New York farmer, W. W. Christman, who had not found time to write until he was 60 years old. After his lyrical Songs of the Helderhills and Songs of the Western Gateway, his third little volume called Wild Pasture Pine, brought this surprising recognition.

Long before this you have been thinking of the American poet who combines the rugged and the musical with such heart-warming success - Robert Frost. Read again his poem on The Death of the Hired Man. Verity, humanity, and poetic worth make it a small and homely masterpiece. Among his volumes, New Hampshire and Collected Poems have both received the Pulitzer poetry award. And although he holds informal talks on literature with selected students at Amherst College, he is still a real farmer, for we know that his home is on the third New England farm that he has worked with his own hands. Gertrude Stein, on her much-discussed visit in America last winter, said, "If Mr. Frost is good as a poet, it is because he is a farmer - really in his mind a farmer." And although his writing is almost exclusively rural, we can safely say that Robert Frost is a very general favorite among our American poets.

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SCIENTIFIC TRANSLATION PROJECTS AT NORTH CAROLINA STATE COLLEGE

By Dr. L. E. Hinkle,
Professor, Department of Modern Languages,
North Carolina State College.

Work on scientific translations started, in North Carolina State College, several years ago as a kind of by-product of our courses in Advanced Scientific German and French. When I began conducting these courses, I soon discovered that there was a dearth of worth-while text material in the field of scientific literature. Often that which was obtainable was entirely too restricted in its scope and frequently out of date. It lacked the breath of life. I therefore adopted the plan of conducting these courses by changing my recitations into lecture periods on the structure and technique of the respective languages, and, for reading material, using assignments selected from the literature of the student's major interest. These assignments ultimately took the form of some recent publication in which the student was interested because he felt that it threw light upon his special problem.

I then conceived the idea that this material should be translated into appropriate English and published in bulletin form. Finding that the college was not in a position financially to undertake such publications, I did what I conceived to be the next best thing, namely, to have them bound after the manner of our masters' theses and deposited in the library. The appended list shows the extent and character of what we have accomplished in this respect.

All of these works have been carefully supervised both from the standpoint of their accuracy as translations and the character of their English. They are clearly typed and where illustrations were necessary in order to understand the text, such illustrations have either been copied, photographed, or otherwise inserted. The ideal was constantly held before the student that he endeavor to produce a work completely comprehensible in and of itself. In case it were not possible to include the illustrations in the translation itself, we endeavored to have the original article bound along with the translation, with self-explanatory references. No article has been accepted for binding that does not state clearly the author, the title of the article, the date and place of publication. In case the article is taken from a magazine or a book, this is also stated, giving pages, chapters, etc. These translations are listed in our library under the name of the translator with cross references.

At the present time we have about fifteen such translation projects under way. Naturally, they will not all be acceptable. Out of this number I should say that we will probably not get more than four or five that will measure up to our requirements. I mention this in order to give an idea of the standard that we set for acceptable student work. Those who have been fortunate enough to accomplish one of these translations, feel justly proud.

As I have gone on with the work, two things have become increasingly clear to me, viz: (1) the magnitude and importance of such a service, and (2) the inability to meet the requirements of such work through the instrumentality of student translation projects. I would not in any way discount what we have done, but after all, in view of what there is to be done, it is not much more than a gesture.

With these objects in mind, I recently appointed a committee under the chairmanship of one of my students who has been most active in such translation projects, and who is now engaged in scientific work in connection with the college, to make a survey of our situation here with the idea of broadening the work. I asked this committee to give me a report covering the following points:

1. The need of such a translation service.
2. The method of procedure, in their opinion, calculated to meet with the best results.
3. How such a service could best be conducted.
4. Results that might logically be expected to follow.

A resume of this report is as follows:

1. The need of such a translation service

a. Decrease of duplication of effort in research.

Publications sent out from European and South American institutions indicate clearly that there is much duplication of effort in research between this country and foreign countries. This duplication occurs as a result of the fact that there is little time for translation among those heavily burdened with research and teaching. The result is a waste of effort that could be largely avoided by a thorough acquaintance with foreign literature. By making translations available such duplication could be prevented for the most part. In case duplication is desirable, in some instances, cooperation amongst those having a common interest would certainly facilitate the advancement of the problem concerned.

b. Contact with foreign workers.

Many foreign countries are at the forefront in the development of research not only in the natural sciences, but in engineering, textiles, and related fields as well. Knowledge of the methods and results of these workers should lend enthusiasm and inspiration to colleagues in this country. An enormous amount of literature has emanated from some of these foreign sources in the fields mentioned and a careful translation of desirable parts of this literature would supply a means of contact which could be a substitute for personal visits, which are needed to keep abreast of the times.

c. Insufficiency of abstracts.

Translations appearing in abstracts have a very restricted use. Such abstracts are usually severely limited and give only the merest epitome of the paper. Any one interested in such a paper and desiring full knowledge of its contents would have to fall back upon an adequate translation. Abstracts are usually only a guide to the translations needed.

SCIENTIFIC TRANSLATION PROJECTS AT NORTH CAROLINA STATE COLLEGE
(continued)

d. Recognition of such a need.

The United States Department of Agriculture has recognized the need of a translation service and its library is attempting to establish some procedure which will aid in meeting this need. The University of California and possibly many others have taken cognizance of the problem and are actively considering ways and means to solve the need of translations. Many of our larger commercial organizations maintain their own translation service.

2. Method of Procedure

a. Collection of material.

A systematic collection of publications (current publications such as papers, articles, and bulletins not ordinarily translated) from Europe and South America should be made.

b. Selection of material.

In the selecting process consultations with various departments should be held. Papers in which the department is interested should be translated. Papers not important enough for translation might be abstracted.

c. Publication.

All possible means of distribution should be carried out. Copies should be mimeographed or multigraphed and distributed without binding to those interested and a bound copy placed in the library. Where this is not feasible, typewritten copies should be furnished. The most desirable means of publication would be printing in bulletin form.

3. Requirements for such Service

a. Competent man must be obtained.

One who has competent training should be secured for such work. The person should have a broad linguistic knowledge, supplemented by a thorough scientific and cultural background. Such a man could take over part of the teaching load in the language department and devote such time to translations as the Head of the Department might consider desirable. There are few who have the necessary qualifications, of adequate linguistic and scientific training, for such work; therefore the selection of the proper man is very important.

b. Help needed.

Competent stenographic help is necessary and some form of distribution should be available.

SCIENTIFIC TRANSLATION PROJECTS AT NORTH CAROLINA STATE COLLEGE
(continued)

4. Results

Such a service would aid in establishing a proper foundation for the development of a genuine technical school of broad horizon. A real need will be filled and all lines of research and teaching should be stimulated. The Department of Modern Languages would thus be placed in a position of larger service which it cannot perform with its present facilities.

In view of this committee's report, and as a result of my own convictions in the matter, I plan to go before the college authorities in the near future with the proposition that such translation service be made an integral part of our Modern Language Department here and that it be put upon an adequate financial basis.

Scientific articles translated under the supervision of Dr. L. E. Hinkle,
Professor of Modern Languages in the State College
of the University of North Carolina.

Kopp, Adolf: THE LIFE OF THE WHEAT STEM FLY.
Translated by C. H. Brannon.

Landsteiner, Karl: UBER EINIGE NEUERE ERGEBNISSE DER SEROLOGIE.
Translated by C. H. Brannon.

QUELQUES VUES NOUVELLES SUR L'HISTOLOGIE
DU POU MON, REVUE GENERALE DES SCIENCES
Translated by C. H. Brannon.

Sprengel, L: VERSUCHE ZUR RATIONALISIERUNG DER HEU UND
SAUERWURMBEKAMPFUNG IM PFALZISCHEN WEINBAR.
Translated by C. H. Brannon.

Frisch, K. V.: VERSUCHE UBER DEN GESCHMACKSSIN DER BIENEN.
Translated by C. H. Brannon.

Müller, P.: DIE ZUCKERKRANKHEIT UND IHRE BEINFLUSSUNG DURCH INSULIN.
Translated by C. H. Brannon.

Galland, M. P.: A PROPOS DE LA RÉGÉNÉRATION NATURELLE DE L'EPICCA
CULTIVE EN DEHORS DE SA STATION NATURELLE.
Translated by C. W. Comfort.

LE FORESTIER ET LE MOUVEMENT SCIENTIFIQUE.
Translated by C. W. Comfort.

Guinier, P.: LES APPLICATIONS DE LA GENETIQUE EN CULTURE FORESTIÈRE.
Translated by C. W. Comfort.

Katayama, T.: THE ABILITY OF FOWLS TO DIGEST FEED.
Translated by R. S. Dearstyme.

SCIENTIFIC TRANSLATION PROJECTS AT NORTH CAROLINA STATE COLLEGE
(continued)

- Marcel Laporte: LES PARTICULARITES DE LA DÉCHARGE ELECTRIQUE DANS LA
GAZ RARES, AU POINT DE VUE DE LEUR APPLICATION
A L'ECLAIRAGE.
Translated by I. O. Garodnick.
- Correns, C.: UNTERSUCHUNGEN UBER DIE ZENIEN BEI ZEA MAYS.
Translated by C. M. Garren.
- Koernicke, Max.: DIE ENTSTEHUNG UND ENTWICKLUNG DER SEXUALORGANE VON
TRITICUM, MIT BESONDERER BERUICKSICHTIGUNG DER
KERNTHEILUNGEN.
Translated by C. M. Garren.
- Joubert, A.: LE FORESTIER ET LE MOUVEMENT SCIENTIFIQUE.
Translated by C. W. Comfort.
- Lamarck, J. B.: CONCERNING THE MODIFICATION OF LIVING BODIES.
Translated by -----.
- Kondo, M.: Der ANATOMISCHE BAU EINIGER AUSLANDISCHER HÜLSENERFRUCHTE
DIE JETZT VIEL IN HANDEL KOMMEN
Translated by C. M. Garren.
- Lassar-Cohn: DIE PHOTOGRAPHIE.
Translated by C. M. Garren.
- DIE WELT DER TECHNIK, BAUKUNSTLER.
Translated by C. M. Garren.
- Heink, G.: MIKROSKOPIE AN KUNSTEIDE.
Translated by A. H. Grimshaw.
- Lehmann, R.: HUMIDITY AGENTS AND THEIR BIOLOGICAL TESTING.
Translated by A. H. Grimshaw.
- Tagliani, G.: DIE IMMUNIZIERUNG DER VEGETABILISCHEN FASERN UND IHRE
VERWINDBARKEIT IN DER BUNTWEHLEREI UND DRUCKEREI.
Translated by A. H. Grimshaw.
- Haussermann, Karl Von: LEHRBUCH DER CELLULOSECHEMIE.
Translated by H. C. Jones, Jr.
- Leblond, Etienne: APPLICATION DE L'ETUDE DES BIO-CELLOIDES À LA
MORPHOLOGIE ET À LA PHYSIOLOGIE DU CYTOPLASMA.
Translated by B. J. Kaston.
- Wagner, Franz Von: ENTWICKLUNGSLEHRE.
Translated by B. J. Kaston.

SCIENTIFIC TRANSLATION PROJECTS AT NORTH CAROLINA STATE COLLEGE
(continued)

Lakhousky, Georges: SUR LA THÉORIE DU CANCER BASÉE SUR LA NATURE
GÉOLOGIQUE DE SOL.

Translated by Lena B. Ladu.

Hamann, A.: TEXTILE FABRICS.

Translated by L. P. London.

Bellet, Daniel: L'ÉVOLUTION DE L'INDUSTRIE.

Translated by C. P. Loomis.

Lebedeff, A.: DIE BEWEGUNG DES WASSERS IM BODEN UND IM UNTERGRUND.

Translated by J. F. Lutz.

Bloch, Eugene: THE OLD AND THE NEW QUANTUM THEORIES.

Translated by J. W. Perry.

Bridal, Marc: THE GLUCOSIDES OF METHYL SALICYLATE.

Translated by J. W. Perry.

Marchal, Germaine: GLUCINUM: THE HISTORY OF ITS DISCOVERY, ITS
PREPARATION AND PROPERTIES.

Translated by J. W. Perry.

Warburg, Otto: CONCERNING THE PRESENT CONDITION OF THE CANCER PROBLEM.

Translated by J. W. Perry.

Die Welt der Technik: BAUKUNSTLER

Translated by G. M. Garren.

Stark, J.: UBER DEN ELEMENTAREN VORGANG DER EMISSION UND ABSORPTION
DES LICHTS.

Translated by D. B. Thomas.

Hillern, W. V.: HOHER ALS DIE KIRCHE.

Translated by LeNeve Zimmerman.

Kriggsman, B. J.: DIE THERAPIE DER KOKZIDIOSE.

Translated by O. B. Taylor.

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AGRICULTURAL LIBRARIES SECTION
American Library Association

Chairman: Grace Barnes, Librarian, University of Maryland.
Secretary: Cora L. Feldkamp, Librarian Office of Experiment Stations,
U. S. Department of Agriculture.

Meeting at Richmond, Monday, May 11, 2:30 p. m.

Program

Research on authorship as an aid to the education of the librarian.

Henry O. Severance, Librarian, University of Missouri.

Discussion of Mr. Severance's paper.

Led by James A. McMillen, Librarian, Louisiana State University.

Methodology used in compiling a bibliography in the field of agricultural economics. Louise O. Bercaw, Bureau of Agricultural Economics Library,

U. S. Department of Agriculture.

Reports of International Committee of Agricultural Librarians.

Reports of Committee on Bibliographical Aid, Committee on Nominations,

and the Eunice Rockwood Oberly Memorial Fund Committee.

Business.

Discussion of various topics.

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DIRECTORY OF AGRICULTURAL LIBRARIES OF THE WORLD

The Library of the International Institute of Agriculture is compiling for publication a directory of the agricultural libraries of the world. In addition to giving the names and addresses of the libraries and the names of the librarians, it will contain information concerning the scope and size of the collections, the classification and catalogues of the libraries, their service to readers, their relations with other libraries, their staffs, and their publications. This work was undertaken as an outcome of the establishment last year of the International Committee of Agricultural Librarians of which the Librarian of the International Institute of Agriculture is the Secretary.

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ERRATA

The following corrections should be made in the article on the Bibliofilm Service in the January 1936 issue of Agricultural Library Notes:

Page 56, next to last line. Change Nov. 1934 to Jan. 1935.

Page 57, 1st paragraph, 4th line. After "4" add "and 6".

Page 57, 2d paragraph. Change first sentence to read:

"The total number of microfilms of publications supplied from January to December 1935, in lieu of sending the volumes, was 1815, comprising in all 36,160 pages."

Page 57, 2d paragraph, 5th line. Change 1610 to 1364, and 3415 to 3179.

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PRINCIPAL LIBRARY ACCESSIONS

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SEIFRIZ, W. Protoplasm. New York, McGraw-Hill, 1936.

Botany

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AYRE, A. M. Wild flowers of Newfoundland. v.3. St. John's, Newfoundland, Ayre, 1935.

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Commercial products

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Economics, Agricultural

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Employment, Relief.

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Planning

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HELM, C. A. The oats-Korean combination. (Mo. Agr. Col. Ext. Leaflet 37.) Columbia, 1936.

TROTTER, I. P. Testing seed corn. (Mo. Agr. Col. Ext. Leaflet 38.) Columbia, 1936.

Montana

STAUTZ, O. The kitchen. (Mont. State Col. Ext. Bul. 75, 3d printing [i. e. rev.]) Bozeman, 1935.

LAMPHERE, W. H. Montana agricultural outlook. (Mont. State Col. Ext. Circ. 75.) Bozeman, 1936.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING MARCH 1936

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New Hampshire

- COLBY, H. N. Burglar proofing the farm. (N. H. Univ. [Agr.] Ext. Circ. 171.) Durham, 1935.
- HILL, H. E. Daytime bag and scarf. (N. H. Univ. [Agr.] Ext. Circ. 172.) Durham, 1935.
- LATIMER, L. P. Grape growing in New Hampshire. (N. H. Univ. [Agr.] Ext. Circ. 173.) Durham, 1935.
- HILL, H. E. Bringing clothing up-to-date. (N. H. Univ. [Agr.] Ext. Circ. 174.) Durham, 1935.
- ELLIS, E., and SANBORN, M. L. Canning of meats. (N. H. Univ. [Agr.] Ext. Circ. 175.) Durham, 1935.
- PRINCE, F. S. Lawns, their building and maintenance. (N. H. Univ. [Agr.] Ext. Circ. 177.) Durham, 1936.
- HEPLER, J. R. Planning the garden. (N. H. Univ. [Agr.] Ext. Circ. 180.) Durham, 1936.

New Jersey

- HEADLEE, T. J., and others. 1936 spraying recommendations for plums. (N. J. Agr. Col. Ext. Bul. 166.) New Brunswick, 1936.
- HEADLEE, T. J., and others. 1936 spraying recommendations for cherries. (N. J. Agr. Col. Ext. Bul. 167.) New Brunswick, 1936.
- HEADLEE, T. J., and others. 1936 spraying recommendations for grapes. (N. J. Agr. Col. Ext. Bul. 168.) New Brunswick, 1936.
- HEADLEE, T. J., and others. 1936 spraying recommendations for apples. (N. J. Agr. Col. Ext. Bul. 169.) New Brunswick, 1936.
- HEADLEE, T. J., and others. 1936 spraying recommendations for peaches. (N. J. Agr. Col. Ext. Bul. 170.) New Brunswick, 1936.

New York

- BURNETT, E. L. Poultry diseases. (N. Y. Agr. Col. (Cornell) Ext. Bul. 337.) Ithaca, 1935.

North Dakota

- LATZKE, E. Cooking and canning meats. (N. Dak. Agr. Col. Ext. Circ. 137.) Fargo, 1936.

Ohio

- LANCASHIRE, E. R. Home gardening. (Ohio Agr. Col. Ext. Bul. 116, 6th ed. rev.) Columbus, 1935.
- WALLACE, B. A. Cooperative marketing: Its practical problems. (Ohio Agr. Col. Ext. Bul. 170.) Columbus, 1936.
- PARKS, T. H. Insects on elms. (Ohio Agr. Col. Ext. Bul. 172.) Columbus, 1936.

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Oklahoma

THOMPSON, C. P. Care and management of swine. (Okla. Agr. Col. Ext. Circ. 225, rev.)
Gen. Ser. 64.

Oregon

Oregon apple and pear spray program. (Oreg. Agr. Col. Ext. Bul. 483.)
Corvallis, 1936.
Spray program for Oregon stone fruits. (Oreg. Agr. Col. Ext. Bul. 484.)
Corvallis, 1936.

Puerto Rico

KEOWN, M. E. La conservación de frutas y vegetales en Puerto Rico.
(Puerto Rico Univ. [Agr.] Bol. de Ext. 7.) Rio Piedras, 1935.

South Carolina

HAMILTON, R. W., and PRICHARD, B. E. G. The cotton contest --- 1935
for better yield and staple value. (Clemson Agr. Col., S. C., Ext.
Circ. 146.) Clemson, 1936.

Texas

BENTLEY, M. R. Terracing farm lands in Texas. (Texas Agr. Col. Ext.
[Bul.] B-51 [rev.]) College Station, 1935.
BLAIR, L. Canning of meat in the home. (Texas Agr. Col. Ext. [Circ.]
C-55 [rev.]) College Station, 1935.
ROSBOROUGH, J. F. Growing asparagus. (Texas Agr. Col. Ext. [Circ.]
C-82 [rev.]) College Station, 1935.
REPPERT, R. R. Demonstration outline for Irish potato production.
(Texas Agr. Col. Ext. [Circ.] C-85 [rev.]) College Station, 1935.
References.
REPPERT, R. R. Watermelon demonstration. (Texas Agr. Col. Ext. [Circ.]
C-87 [rev.]) College Station, 1935.
MILLER, E. A. Important steps in growing cotton. (Texas Agr. Col. Ext.
[Leaflet] L-6 [rev.]) College Station, 1935.
MILLER, E. A. Important steps in growing corn. (Texas Agr. Col. Ext.
[Leaflet] L-7 [rev.]) College, 1935.
MILLER, E. A. Important steps in growing grain sorghums. (Texas Agr.
Col. Ext. [Leaflet] L-8 [rev.]) College Station, 1935.
MILLER, E. A. Important steps in growing sweet clover. (Texas Agr.
Col. Ext. [Leaflet] L-10 [rev.]) College Station, 1935.
Directions for making a halter. (Texas Agr. Col. Ext. [Leaflet] L-15.)
College Station, 1935.

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TULLY, W. C., and JOHNSON, E. P. Turkey facts for Virginia. (Va. Agr. Col. Ext. Bul. 140.) Blacksburg, 1936.

Washington

Buying bedspreads. (Wash. State Col. Ext. Bul. 211.) Pullman, 1936.

Reprinted from mimeographed publication by Bess M. Viemont, Bureau of Home Economics, U. S. Department of Agriculture, Washington, D. C. How to press clothing. (Wash. State Col. Ext. Bul. 212.) Pullman, 1936.

Chair caning. (Wash. State Col. Ext. Bul. 213.) Pullman, 1936.

Reprint from Iowa State Col. Ext. Home Furnishing Booklets [unnumbered]

KNOTT, J. C., and others, Pea feed and other pea by-products for dairy cows. (Wash. State Col. Ext. Bul. 214.) Pullman, 1936.

Washington laying rations. (Wash. State Col. Ext. Poultry Pointers no. 20 (rev.) Pullman, 1935.

West Virginia

FRIANT, R. J., and GARBER, R. J. Growing alfalfa in West Virginia, some suggestions. (W. Va. Agr. Col. Ext. Circ. 312.) Morgantown, 1936.

HUMPHREYS, G. Our community tomorrow. (W. Va. Agr. Col. Ext. Good Living Ser. IV, Lesson no. 4, Adventures in Everyday Living.) Morgantown, W. Va.

Wisconsin

MELOCHE, G. Helps in buying hosiery. (Wis. Agr. Col. Ext. Circ. 275.) Madison, 1935.

GRABER, L. F. Renovating blue grass pastures. (Wis. Agr. Col. Ext. Circ. 277.) Madison, 1936.

BEACH, B. A. Take care of the work horse. (Wis. Agr. Col. Ext. Spec. Circ. [unnumbered]) Madison, 1936.

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SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
of the U. S. Department of Agriculture
received during March, 1936, exclusive of Bibliographies*
and current issues of serials.**

Office of the Secretary

In the wake of the flood. Remarks by Henry A. Wallace, National farm and home hour, March 24, 1936. 5 p.

The new farm legislation. Remarks by Henry A. Wallace over the National farm and home hour, NBC, March 3, 1936. 4 p.

Region and nation. Remarks by Henry A. Wallace, NBC, March 17, 1936. 5 p.

Agricultural Adjustment Administration

Impounded processing taxes and processors' profits; text of letter of Secretary of agriculture Wallace to Senator George W. Norris, relating to processing taxes outstanding, profits of processors, and operating and profit margins of processors, with accompanying report by L. H. Bean. 1936. 7 p.

Income parity for agriculture. By L. H. Bean. 1936. 8 p.

Bureau of Agricultural Economics

Cost of production of sweet potatoes. Data from studies in 10 states, selected years, 1914-32. Compiled from official sources by H.W. Hawthorne, 1936. 16 p. (Issued by Division of farm management and costs)

Dairy products manufactured, 1934, by months. 1936. 5 p.

Estimates of livestock on farms January 1, 1930-36 by classes. 1936. v.p.

Extent of protection from fluctuations in spot-cotton prices afforded by future trading. By L. D. Howell and Leonard J. Watson. A preliminary report. 1936. 28 p.

Flour, feed and wheat: prices at Minneapolis, [1932-1935] 1936. 8 p. (Issued by Division of statistical and historical research)

International universal cotton standards conference of 1936. General meetings of March 9 and 12, 1936. 1936. 19 p.

Marketing Texas onions; brief review of 1935 season. By W. D. Googe. 1936. 17 p. (In cooperation with Texas Department of agriculture, Markets and warehouse division).

*Bibliographies included in general list of bibliographies on page 190.

**For a list of the principal series issued regularly, see v. 9, no. 10, p. 354.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Agricultural Economics
(Continued)

- Marketing the Michigan grape crop; brief review of the 1935 season. By R. E. Keller. 1936. 5 p. (In cooperation with Michigan Department of agriculture. Bureau of foods and standards).
- Marketing the Michigan pear crop; brief review of the 1935 season. By R. E. Keller. 6 p. (In cooperation with Michigan Department of agriculture, Bureau of foods and standards).
- Marketing western New York celery, summary of 1935 season. By V. H. Nicholson and A. L. Thomas. 1936. 9 p. (In cooperation with New York state department of agriculture and markets).
- Receipts from the sale of principal farm products by states, January 1933 to 1936. 1936. 8 p. (Issued by the Division of statistical and historical research).
- Seed statistics. Prepared by the Hay, feed and seed division. 1936. 58 p.
- State agricultural departments and marketing agencies with names of officials. Compiled in the Division of economic information. 1936. 6 p.
- Tentative United States standards for split peas. 1936. 4 p. (HFS-1750)
- Warehousemen licensed under United States warehouse act as of the close of Feb. 29, 1936. 1936. 18 p.

Bureau of Biological Survey

- An automatic drinking fountain for minks. By C. F. Bassett. 1936. 3 p. (Wildlife research and management leaflet BS-40.) (Issued by Division of Wildlife Research.)
- Cooperative research in wildlife management - a summary of the project to February 15, 1936. Prepared by I. T. Bode. 1936. 16 p. (Wildlife research and management leaflet BS-38) (Issued by Division of wildlife research)
- The correlation of forestry and wildlife management. By Ira N. Gabrielson. 1936. 8 p. (Wildlife research and management leaflet BS-37) (Reprinted from the Journal of forestry 34 (2): 98-103, Feb. 1936.)
- Raising muskrats. Prepared in the Section of fur resources, Division of wildlife research. 1936. 2 p. (Wildlife research and management leaflet BS-35)
- Report on the Arnett, Oklahoma, experimental quail and prairie chicken management project. By Verne Davison. (Abridged by W. L. McAtee.) 1936. 6p. (Wildlife research and management leaflet BS-39.)

Bureau of Dairy Industry

- Rules for students' national contest in judging dairy products. 1936. 9 p.

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Bureau of Entomology and Plant Quarantine

Certification requirements of foreign countries with respect to fresh fruits and vegetables. 1936. 55 p. (Foreign plant quarantines memorandum no. 27)
Compiled by Harry B. Shaw.

Classification of seeds. 1936. 54 p. (Foreign plant quarantines memorandum no. 28)

Lonchocarpus species (Barbasco, Cube, Haiari, Nekoe, and Timbo) used as insecticides. [By] R.C. Roark. 1936. 133 p. (E-367) (Issued by Division of insecticide investigations)

A parasite rearing tray developed to meet special requirements. By W.F. Sellers. 1936. 3 p. (ET-74) (Issued by Division of foreign parasite introduction)

A thermally insulated unit for the transportation of adult insect parasites. By W.G. Bradley. 1936. 2 p. (ET-77) (Issued by Division of cereal and forage insect investigations)

Extension Service

Announcement, Tenth national 4-H club camp, Washington, D.C., June 18-24, 1936. 9 p.

An appraisal of the programs in recreation. By C.B. Smith. 1936. 6 p. (Presented at Regional extension conference Eastern states, Boston, Mass., Feb. 19 to 21, 1936)

The farm family as the unit for extension work. By Grace E. Frysinger, 1936. 5 p. (Extension service circular 236) (Issued by Division of cooperative extension. A paper presented at the 49th annual convention of the Association of land-grant colleges and universities, Washington, D.C., Nov. 18-20, 1935)

Former 4-H club members attend agricultural colleges; a statistical study of former 4-H club members enrolled as students in agricultural and home-economics courses at the state colleges of agriculture in the Central states, 1935-36. Compiled by R. A. Turner, 1936. 5 p.

The Missouri program for quality hay production. By Dr. Ide P. Trotter. 1936. 2 p.

Quality affecting feeding value of alfalfa hay and suggestions for use in purchasing alfalfa for dairy feeding. Prepared by E. O. Pollock. 1936. 4 p.

Soybean projects of the State agricultural experiment stations. 1935-1936. Compiled by Henry M. Steece, 1936. 15 p.

A study of present status of programs to improve college teaching in agricultural division of land-grant institutions. Report of Committee on instruction in agriculture of the Association of land-grant colleges and universities. 1936. 26 p.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Extension Service (continued)

Suggested procedure for incorporating home management in the 4-H club program.
By Mildred Ives. 1936. 45 p. (Extension service circular 234) (Issued by
Division of cooperative extension)

What social and economic changes must be considered in our program planning?
By Herbert J. Baker. 1936. 3 p. (Presented at Northeastern states extension
conference, Boston, Mass., Feb. 20, 1936)

Forest Service

A basis for selection of species for reforestation in the central hardwood
region. A. G. Chapman. 1936. 6 p. (Central states forest experiment
station. Station note no. 29)

Collection, extraction, and yield of black locust seed. By Leonard F. Kellogg.
1936. 5 p. (Central states forest experiment station. Station note no. 23)

A home-made thresher for black locust seed pods. By Ben. F. Myer. 1936.
2 p. (Central states forest experiment station. Station note no. 27)

Seed extraction, storage, and testing in central Europe. By Hardy L. Shirley.
1936. 2 p. (Issued by Lake states forest experiment station)

Bureau of Home Economics

Food rich in vitamins A,B,C,D,E,G, and the pellagra-preventing factor. By
Hazel E. Munsell and Esther Peterson Daniel. Revised, 1936. 8 p.

Bureau of Plant Industry

The control of water weeds. By M. W. Talbot. 1936. 2 p. (Issued by Division
of cereal crops and diseases)

Cooperative uniform comparisons of corn topcrosses, 1935. 1936. 38 p.
(Issued by Division of cereal crops and diseases, cooperating with the State
agricultural experiment stations)

Germination and emergence in spring wheats of the 1935 crop. 1936. 20 p.
(Issued by Division of cereal crops and diseases)

Mango anthracnose control. By H. E. Stevens. 1936. 2 p. (Issued by Division
of fruit and vegetable crops and diseases)

Perilla. By Frank Rabak. 1936. 2 p. (Issued by Division of drug and related
plants)

Results of spring-wheat varieties grown in cooperative plot and nursery experiments in the spring-wheat region in 1935. 1936. 38 p. (Issued by Division
of cereal crops and diseases) (By J. Allen Clark)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
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Soil Conservation Service

Annual report, Pacific northwest erosion control projects, 1934-1935. 1936.
44 p.

"Wildlife management by the Soil conservation service", a paper presented
before the North American wildlife conference, by Ernest G. Holt. 1936. 5 p.

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NOTES ON PERIODICALS

New

- California conservationist. State Office Building, Sacramento, Calif. mo.
f^o. il. Vol. 1, no. 1. Jan. 1936. \$1.00.
- C.N.A. Revista del Centro nacional de agricultura. Apartado de Correo no. 746.
San José, Costa Rica. 4^o. Año. 1, no. 1/2, Jan./Feb. 1936.
- Food research. Twin City Printing Co., Champaign, Ill. bi-mo. 4^o. Vol. 1,
no. 1, Jan./Feb. 1936. \$4.00 a year.
- Revista brasileira de chimica (sciencis & industria). Redacção e adminis-
tração; Rua 3 de Dezembro, 48-4^o. São Paulo, Brasil. mo. 4^o. Vol. 1, num. 1,
Jan. 1936.
- Turf survey, a topical textbook of turf. A monthly magazine devoted to
the interests of all turf growers in the United States and Canada.
1900 Superior Avenue, East, Cleveland, Ohio. mo. 4^o. il. Vol. 1, no. 1,
Feb., 1936. \$2.00.

Changes

- Cattle breeder. Chicago, Ill. Combined with Hog breeder, Feb. 1936, to form
Hog Breeder, with which has been combined cattle breeder.
- Pulp and paper of Canada. Gardenville, Que. Changed to Pulp & paper magazine
of Canada with vol. 37, no. 1, Jan. 1936.

ERRATA

In the Notes on Periodicals on page 128 of Agricultural Library Notes
for March 1936, the entry "Society for the Advancement of Science, Journal",
vol. 1, no. 1, should have read "Society for the Advancement of Management.
Journal". This new journal continues the Bulletin of the Taylor Society
and the Society of Industrial Engineers.

TWO RECENT ARTICLES ON OLD ENGLISH AGRICULTURAL TREATISES

Reviewed by Everett E. Edwards, Editor, Agricultural History

POWER, EILEEN. "On the need for a new edition of Walter of Henley. In Transactions of the Royal Historical Society, London, Fourth Series, Vol. XVII, 1934, pp. 101-116.

FUSSELL, G. E. The first 18th century English book on cattle. In Journal of the Ministry of Agriculture, London, Vol. XLII, No. 12, March 1936, p. 1235-1243.

Professor Eileen Power's paper, "On the Need for a New Edition of Walter of Henley," was read before the Royal Historical Society on October 12, 1933, the occasion being the exhibition of a newly discovered MS. of Walter of Henley from a Register of Mottisfont priory together with an annotated copy of the edition published for the Society in 1890 showing variants found in the Mottisfont version. The significance of the discovery has also been dealt with in a special article in the London Times for October 13, 1933, and in an article by Dr. Hubert Hall, "Sir Walter of Henley and the Gospel of Husbandry," in the Contemporary Review, 145: 573-581 (May 1934).

The need of comprehensive studies of the English agrarian theory of the late Middle Ages as found in a remarkable group of didactic treatises on farming and estate management is discussed in detail by Professor Power. Between Palladius in the fourth century and the Renaissance writers, the output on agronomy is astonishingly meager. Aside from the Byzantine Geoponici and the Hispano-Arabic treatises, medieval Europe produced only three important groups of works on the science of farming in nearly eleven centuries. The first consists of Burgundio of Pisa's treatise on viticulture (largely derived from the Geoponici) and the Opus ruralium commodorum of Crescentius, written between 1285 and 1305. The second group comprises four English treatises on agriculture and estate management, written between 1240 and the end of the century: (1) Les Reules Seynt Roberd, a treatise on household management, containing some rules for estate management, and attributed to Grosseteste; (2) Le Dite de Hosebondrie, attributed to Walter of Henley, which is a treatise on estate management and agricultural technique; (3) an anonymous work entitled Ceo est Hosebonderie, which is mainly concerned with rules for keeping the manorial accounts and making the estate pay; and (4) another anonymous treatise called Seneschaucie, which enumerates the various manorial officers and the duties of each. The third contribution of the Middle Ages to scientific agriculture is a treatise on the care of sheep, Le Bon Berger, written by Jehan de Brie in 1379, on the command of Charles V of France, and which survives only in an abridged version printed in 1541. To these works may be added a group of treatises on gardening, prepared in the late fourteenth and early fifteenth centuries.

TWO RECENT ARTICLES ON OLD ENGLISH AGRICULTURAL TREATISES
(continued)

The thirteenth-century English treatises are undoubtedly the most original contribution of the Middle Ages to scientific agriculture. Their value lies in their empirical character, for they seem to come straight from the soil and owe nothing to their classical predecessors. Miss Power believes that we would be justified in regarding them as part of the intellectual revival connected with the friars, particularly the Franciscans, in that century. She also points out the significance of their appearance when demesne farming was at its height. As many great estates were being directly farmed for profit by their owners, there was a public for these scientific writings.

The question of the authorship of these treatises, and also the question of who used them, is discussed at length, and other problems such as the relationship between the four treatises and the extent to which they represented current practice are suggested. Miss Power concludes with a consideration of the necessity for a new edition of Walter of Henley's Husbandry. The gist of the observations of Professor E. F. Gay, Professor R. H. Tawney, and others on Miss Power's paper are appended to the text.

The history of agricultural technique and estate management in England during the Middle Ages has never been systematically studied and the desirability of distinguishing between the practice of different parts of the country has also been ignored. Thus far historians have dealt only with manorial organization and the problems of tenure and labor that can be observed in a manorial framework. Yet, as Miss Power points out, ample material exists for studies of English agrarian economy and estate management during the last three centuries of the Middle Ages, and her comments on the four treatises of the thirteenth century are important for that reason.

Mr. G. E. Fussell's article on "The First 18th Century English Book on Cattle," affords a succinct description and evaluation of Richard Bradley's book, The Gentleman and Farmer's Guide for the Increase and Improvement of Cattle (1729).

Author of nearly thirty works, Bradley should be considered a well-informed journalist rather than an academician as he professed to be. Earlier writers treated livestock in a disjointed manner, and one of Bradley's chief merits was that he "introduced a more methodical arrangement into his treatise and thus provided a readiness of access to his ideas that was as welcome as it was unfamiliar to his readers." Although much of the contents of his book was culled from earlier writings, rather than from the field of personal experience as he said, yet he was the first to provide the very necessary concentration upon essentials. His books appeared simultaneously with the growing love of farming and gardening in England, and they helped to improve both. His book on livestock is divided into four chapters, each with appropriate subdivisions, each dealing with a particular type of livestock, i.e., sheep, pigs, cattle, and horses. Mr. Fussell's article is an interesting addition to the notable series on phases of the history of English agriculture for which we are indebted to him.

FARM LIFE INFLUENCE IN THE NEW AMERICAN ART

By Caroline B. Sherman, Associate Agricultural Economist,
Bureau of Agricultural Economics.

. It is of great interest to all agricultural workers that since those phases of our arts that are related to painting began to develop a distinctive school, which has come to be known as the New American Art, the agricultural influence has been decidedly dominant. Of the five painters whom Thomas Craven names as the leaders of this new movement, four are of farm origin and have returned to their rural States for their subjects and to do their work. Each had had foreign study and foreign travel, and each had done successful work more or less in foreign ways. This return has been a deliberate choice on their part and has been followed by an enthusiasm of work and a vitalizing of method and results that have bid fair to awaken a notoriously inartistic Nation into a genuine understanding and appreciation of the art that is being created within its borders.

Of these five leaders - Charles Burchfield of Ohio, Thomas Benton of Missouri, Grant Wood of Iowa, John Stewart Curry of Kansas, and Reginald Marsh of New York - Marsh is the only one who works with city subjects. He likes to do the common people as found on subways and city streets, at popular resorts, and in breadlines. He has recently turned to murals and is executing one for the new Federal Post Office Building in Washington.

The four rural painters have varying characteristics. Burchfield is credited with having started the revolt against foreign domination and the return trek to the rural regions on the part of potent workers in the arts. Essentially a Middlewesterner, he has wandered over all America visiting the open country, the settlements, and the farms, painting American life in the raw and in the making. He is more brilliant than powerful, says Thomas Craven, but "on the strength of things accomplished he must be called one of our best artists".

Benton, a more accomplished technician than Burchfield, according to Craven, is our most prominent, vigorous, and versatile painter. It was Burchfield who turned him from his rather imitative art life and work in Europe to the possibilities at home. He too has now travelled, chiefly on foot, from the large industrial cities to the far-lying crannies of America, collecting materials for the painting that has now made him "the most widely discussed artist in America". His versatility is notable. As he studied with Orozco before the Mexican murals had such profound effect on American work, he was among our first to paint in the terms of vital social problems. His mural in the New School for Social Research in New York is probably his best known but the painting of several wall and ceiling panels in the Whitney Museum of New York is a close second, and Craven calls his History of Indiana the most impressive wall decoration on the American continent..

John Stewart Curry is probably the most emotional of the new school - some say the most poetic, having in mind the virile verse of the day. There is frequently a hint of fanaticism in his work as in his Baptism in Kansas which is taking place in a Kansas farmyard. He reflects the striking con-

FARM LIFE INFLUENCE IN THE NEW AMERICAN ART
(continued)

trasts of the Midwest weather, the jungle law as still applied in animal life, the emotionalism of primitive religion. Curry is to execute one of the murals in the Department of Justice Building - the movement of population westward, and the freeing of the slaves.

We come now to Grant Wood, "who, with Benton, now occupies the most influential position in American art". Only within the last two or three years has he shot into his position of national acclaim. "As if by a flash of revelation" says Craven, "Wood made his dynamic change and rapidly developed from just another painter of pictures into the designer of original forms which have no parallel in modern art". Undoubtedly with the laymen he is the general favorite among this group. He seized attention with his "American Gothic" in which the stalwart Midwest farmer and his wife stand only slightly stylized against the distant outline of the gable of the barn in such a way that the Gothic window is definitely suggested - "incomparable characterization rendered with a craftsmanship of the highest order", according to one of the leading critics. His three-part "Dinner for Threshers" is fully as revealing and satisfying - true to realities yet with overtones that suggest the great art of all centuries. We readers of this magazine know with pleasure that the huge two-story panels that hung so effectively at the head of the great staircase of the Corcoran Art Gallery last winter as a part of the national exhibit of the Public Works of Art Project are to form the mural for the Library of the State College of Iowa. In the upper part of the panels is the fragrant haymow and in the lower part are the animals that are to be fed from it. That Wood was primarily a craftsman is always evident in his designs, giving them a sense of permanency that seems to contradict those who view him as a fad and seems to confirm those who believe that he is here to stay - "a powerful factor in our declaration of independence in art".

For of course all is not fair weather for these crusaders - and pioneers. Along with the plaudits of those who wanted reality rather than artificiality or abstractions, yet wanted the reality infused with the true artist touch and power, come the inevitable protests of the irreconcilables against the breaking away from the old traditions, and the warnings of the lukewarm against too early and too enthusiastic acceptance.

But even they realize that Grant Wood has started a regionalism in this group of the arts such as has had notable success in other fields. We hear now of the Minnesota group, the Iowa group - and farm themes are frequent among them all. In many instances the artists have not returned to their native States, as Wanda Gag and Lucile Blanch who are living in the East, but their work bears the unmistakable stamp of long familiarity with the rural themes they use.

The essential Americanism of this new school has been everywhere recognized but it has remained for Grant Wood to emphasize the rural influence in contemporary American art. In his article on the subject in the February 1936 number of Rural America which minimizes his own part in the movement, he reminds us that rural scenes, characters, and events have emerged to a dominant position in our arts and that a great part of the creative work that is being done today is flavored with a close relationship to the soil.

FARM LIFE INFLUENCE IN THE NEW AMERICAN ART

(continued)

He goes much further than this: he declares that from the stand-points of providing material for the creation of works of art, of producing competent artists to create them, and of furnishing intelligent audiences to appreciate them, rural America occupies a more prominent position today than at any previous time in our history.

Here he reaches a crux of the whole question of American art, for the newer psychology would certainly teach us that rather general participation and appreciation are vital factors in any national art life. To collect rich treasures from abroad even for public display here, or to produce a few notable artists ourselves, will not do as much toward helping America to take a satisfactory place in the art life of the Nations as will the more general diffusion of the actual original work of design, and of painting, and of sculpture; and of etching, and the awakening and the exercise of a vivid appreciation of such work among our people generally, and the development of a vigorous and original critical and appraising art sense among Americans who are specializing in studying, teaching, writing, collecting, and dealing in art subjects.

We of the Department of Agriculture remember with pride that it was Dr. Charles J. Galpin, dean of rural sociologists, who challenged the assembled representatives of the creative arts at a meeting of the American Federation of Arts thirteen years ago, to seek out and use the vital phases of American agriculture that everywhere surrounded them. It was a new voice with a new call among them. The story of how his address happened to be given is told in the South Atlantic Quarterly for July 1928 under the somewhat foreign title of Farm Life in Fiction. The Public Works of Art Project was later a great impetus to this new movement as a whole. The prescribed subject was the American scene. The results were hung within the regions where produced and these exhibitions were visited by thousands who had never attended as large showings before. Some of the best work was brought to Washington for a national exhibit and was sent to other large centers later. Many of us will long remember "Vendue", that small painting of a forced sale of a farm by a painter unknown to us, surrounded by paintings much larger and more striking. The canvas was so small that the expressions on the faces could scarcely be seen, but through the groupings and the attitudes of the farmer figures the picture was instinct with silent watchfulness and hopeless fear. When the canvas reached the Museum of Modern Art in New York its Director thought this picture by Robert Tabor of Independence, Iowa, one of the best done under the entire project.

The success of the Stone City Art School and Colony conducted in the depths of Iowa for two years, with Grant Wood as one of the leaders, is a significant indication of what can be accomplished among rural people. One of the first of such ventures in the Middle West, it soon found that the abandoned stone buildings could not hold all who wished to work there. Then the Sunday visitors from village and farm, near and far, were so many that a small visitor's fee was charged on that day. So great was the attendance that these fees made it possible for the venture to pay expenses. These rural visitors sometimes staid for lessons and many bought pictures. It is authoritatively stated that 400 of Grant Wood's paintings have been brought direct, not through any dealer, by dwellers in Iowa.

FARM LIFE INFLUENCE IN THE NEW AMERICAN ART
(continued)

Patronage is necessary to the permanence of any art. An art patronage that is rooted in the rural regions is a new thing in America and is perhaps one of the best indications for the future of this school of painting. Although conceding that no one knows how permanent the present ascendancy of rural life in American art will be, Grant Wood himself believes that the present enthusiasm for the arts in America will prove to be broader, more profound, and more lasting than any similar interest in our history.

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MISCELLANY

"Let us begin with the unbelievable fact that most college freshmen do not even understand the meaning of the term bibliography. After all, this is not so surprising, considering that many graduate students find their greatest difficulty - their greatest stumbling block with this term - they do not know how to use one nor do they know how to compile a bibliography. If freshmen are early taught the value and science of 'bibliography' I firmly believe that the scholastic standing of each collegian would be noticeably raised." This is the opening paragraph of a helpful article on "Teaching College Freshmen to make a Bibliography" which appeared in School and Society for March 21, 1936. The article is by A. Beatrice Young of the University of Denver Library.

"No book shall be taken out. We have sworn it. The library will be open from the first hour until the sixth." This notice, inscribed in Pentelic marble, has been uncovered in Athens by the expedition of the American School of Classical Studies, according to a recent note in Science News Letter. It is believed to have belonged in front of the Library of Trajan, about 100 A. D. Library hours, "first hour until the sixth", were from seven in the morning until noon.

A Union Checklist of Forestry Serials has recently been compiled by the Library of the Forest Service, U. S. Department of Agriculture, under the direction of Helen Moore, Librarian. The purpose of the checklist is to assist in the identification of serials, to locate material, to serve as a checklist of what has been issued, and to aid libraries in building up their collections. It was compiled from the holdings of the U. S. Department of Agriculture, the Library of Congress, and from the entries in the "Union List of Serials in Libraries in the United States and Canada". The titles, numbering approximately 1800, were checked against their holdings, by 125 libraries (forest school, agricultural college, university, and various public libraries) throughout the United States and Canada. The list contains 145 pages.

MISCELLANY
(continued)

"The Micro-copy Film Situation, a Discussion of Films for Library Use", by Vernon E. Pratt, President, International Filmbook Corporation, New York City, is contained in the April 1, 1936 issue of the Library Journal, p. 260-263.

"Founders and Foundations of Florida Agriculture [Horticulture]. A Serious and Frivolous Study of Men and Measures", by P. H. Rolfs, which was included in the Florida State Horticultural Society Proceedings, 1935, p. 129-150, has been issued separately as a reprint. In the article, Dr. Rolfs gives a bit of interesting history connected with the printing of the early Proceedings of the Society. He says: "Speaking of printing, that reminds me of the many deserved compliments that have been paid to our unique printed Proceedings. Printing is and always has been, a bugbear, passed up to the Executive Committee, fortunately. On the way to Pensacola, for our Fifth meeting, this was seriously discussed. Means were the obstacle. W. S. Hart had taken extended long-hand notes of the previous four meetings and promised to meet Adams and write them up fully. At Pensacola I gave a lecture on insects, illustrated by stereopticon. That clinched the matter. The Proceedings must be published. An informal committee waited on our Secretary of Agriculture, Wombell. The Hart and Adams resumé and the papers read at Pensacola were printed. The leaders were not pleased. It had cramped their style. Painter [E. O. Painter, publisher of the Florida Agriculturist] steps in. He offers to print all the papers in the 'Agriculturist', then lift the columns and assemble them. He offers to do this, charging only for the material used and additional time required. A number of more affluent members contributed five and ten dollars each. Presto! The thing worked. The style has been retained and the same printer. It is the most pleasing and easiest read of any horticultural society proceedings that have come to hand."

"Educational Books in 1935" is the title of a comprehensive list which appeared in School and Society, v. 43, no. 1109, p. 409-426 (March 28, 1936). It was prepared by Joseph L. Wheeler, Librarian of the Enoch Pratt Free Library, Baltimore. The list includes all the educational publications appearing in 1935, except courses of study, individual school reports from the various cities and states and foreign publications. The books listed are classified as follows: History, principles and philosophy of education; Administration and finance; Supervision; Reports, surveys, statistics and legislation; Conduct and character formation; Psychology of childhood and youth; Educational psychology; Educational tests and measurements; Special education and exceptional children; Educational research; Teachers and teaching methods; Preschool, kindergarten and elementary schools; Curriculum; Secondary education; School libraries; Reading, writing and languages; Mathematics and science; Geography and social studies; Art, music and drama; Vocational, business, and industrial education; Guidance and personnel service; Health, physical education and mental hygiene; Extracurricular activities; Rural education; Higher education; Adult education; Visual and radio education; Education for the new social order.

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ON THE VALUE OF ORGANIZED LIBRARY RESEARCH
IN THE AGRICULTURAL AND FOOD INDUSTRIES

By Paul Mandeville, Vice President in Charge of Investigations,
Institute of American Poultry Industries.

(Extracts from Report of the Poultry Products Conference of Scientific and Technical Workers in connection with the Fourth Annual Meeting of the National Advisory Committee on Research, held under the auspices of the Institute of American Poultry Industries, University of Chicago, September 3-6, 1935)

"Workers in this field [the egg and poultry industries] as in the field of agricultural and food research generally, are often sequestered by the nature of the problems they are studying and by their own necessary location in laboratories far removed from the libraries where they must go to find the material for library research. Without access to these materials the workers are handicapped immeasurably. Small laboratories do not commonly carry extensive bibliographical aids but depend on the nearest public libraries for access to them, a fact that deters many workers from consulting freely the indices and abstract services without which they work seriously in the dark in that a great share of the literature of science is closed to them.

Even the more favorably situated research workers in a specific field like eggs and poultry find that the usefulness of the general reference books and bibliographical services is limited by the time at their disposal for consulting them. Comparatively few research workers of this class command library assistants to run down literature for them and the more advanced and successful the person doing the research, the more likely is he to be burdened with administrative or professional services which absorb much of the time that otherwise might be employed in library research.

An important consideration in appraising the value of organized library research is the frequent need for collecting information quickly in response to some demand of a director of research, a legislative committee, a budget officer who is entitled to know, before approving an expenditure, how far and in what way the problem may already have been answered. Such questions pop up at the most unexpected times and often embarrass the best authorities by the unusualness of the question, pertinent though it may be...

Progress drags or money is wasted on ill conceived projects because authentic information is not readily at hand and few there be who can critically evaluate the often conflicting "facts." Clever people can, in the absence of well authenticated information, prove most any conclusion, however unsound and unlikely to be supported could the facts be marshalled quickly when wanted.

Organized library research has solved satisfactorily the general problem recited above in the relatively few instances where it has been employed. A unique feature of such services when professionally employed, is that they reduce the labor of library research itself. Only a permanent staff so employed in a given field of research, usually an industrial field, can sense the degree of saving effected. Hundreds of people are charged with investigations in every large concern. Every sales and operating department is raising questions and trying to answer them. Formal research in which whole time professional services are employed constitutes only a fraction at best of the total demand for facts already established.

ON THE VALUE OF ORGANIZED LIBRARY RESEARCH
IN THE AGRICULTURAL AND FOOD INDUSTRIES
(continued)

Libraries do not as a rule maintain members on their staffs whose duties may be defined as library research. Indexing and classifying literature is not library research, nor is abstracting. These are aids to library research. Even if libraries were so endowed as to afford staffs trained in library research, the subject matter, when industrially classified, is too diversified for the personnel of a general library to master it as it can be mastered by personnel specializing along lines defined by industry. Since this can hardly be attempted in the staffs of the largest libraries as now composed, it follows that the industries themselves and their scientific counterparts in governmental bureaus must organize for library research.

Some of the best library research work in industry is done by librarians of small so-called "class" libraries attached to laboratories. Such libraries, however, contain as a rule only sectors of the literature available in great libraries. This is so far true that some concerns maintain library research people in their own employ who are permanently housed close to or within great libraries.

The egg and poultry industries peculiarly need an organized staff devoted solely to library research. The argument for a service of this kind on a national scale in the egg and poultry industries was stated in the March 1935 issue of the U. S. Egg and Poultry Magazine*. Since reprints are obtainable from the Institute of American Poultry Industries, it will not be repeated here.

The chief functions of a comprehensive library service in the agricultural industries are:

1. To maintain one or more full time persons attached to important libraries in library centers, like Washington, New York, Chicago and London, for each major industry like eggs and poultry whose duty it should be to become familiar through research with the library resources useful to the industry. By specialization, the personnel would soon become familiar with the peculiar problems of each industry or branch of same and in the answering of many inquiries they would find many that relate to the same subject matter.

2. To separate and reclassify according to products concerned and to problems encountered, the bibliographical materials, especially abstracts, relating to the industry.

3. To periodically assign to advanced research workers who are familiar with the nature of a specific problem and with the research work done or being done, the task of reviewing critically and evaluating the literature on same. To publish such critical reviews on important research subjects germane to the industry at intervals frequent enough to make available to the industry at all times a reasonably up-to-date statement as a guide for individual library research; as an exhibit, also, of the state of research in each important phase of the industry's problems.

*Our Tower of Babel - A statement of the need for better organized library research for the prevention of duplication of effort in the study of industry problems - to bridge the gap that now exists between the conventional training of librarians and the needs of the workers in scientific fields. - By Paul Mandeville.

ON THE VALUE OF ORGANIZED LIBRARY RESEARCH
IN THE AGRICULTURAL AND FOOD INDUSTRIES
(continued)

4. To continuously survey the problems of the industry in order that any intelligent inquirer, whether industry trained or not, may have a basis for judgment as to the importance of the question raised, the likelihood of success, and the conditions under which the research must proceed.

As a simple measure of economy in the expenditure of the vast sums spent for agricultural and food research, and of the labor which such expenditures represent, organized library research could well absorb 2 per cent of the total. From the angle of sound legislation, sound appropriations and sound direction of the research work which is supported by public money, if 2 per cent of all the money spent were allotted to organized library research of the kind described, the sum, amounting to nearly a million dollars a year, would be sufficient for an outstanding service to the advancement of these industries. Great savings would also result if a way could be found to thoroughly coordinate the library research or its support when originating in different agencies, in order that a national program of library research might be the result.

In a democracy like ours legislation is, to a considerable extent, controlled by organized blocks of congress or of legislatures and outside of the departments charged with the work. These agencies may be advised by civilian committees of scientific people, enlightened by testimony of authority or influenced by statements read into the hearings from conferences like the Poultry Products Conference. Law making bodies in the United States are, however, peculiarly responsive to demands of the laity. Hence the special need in our country for organized library research and for critical reviews of scientific literature made available to sequestered research workers wherever found.

From them and from the leaders of industry - out of their problems - will always come the decisive demands for specific research projects which legislative bodies cannot ignore.

The foregoing article may be said to be supplemented by the following additional extracts from the Report of the Poultry Products Conference:

Bibliographical Conference

The abstracting service conducted by the Institute of American Poultry Industries now includes topics described in the statement of the Poultry Products Library Service on succeeding pages.

The following suggestions were made by the conference:

1. That abstracts in related subjects be provided and a definite effort made to abstract "out-of-the-way" articles.
2. That experts reading in their fields of study might report those articles which they find interesting and enlightening to the service.
3. That invitations be extended to those writing on poultry or any related subject to file copies or abstracts of their writings with the service.

ON THE VALUE OF ORGANIZED LIBRARY RESEARCH
IN THE AGRICULTURAL AND FOOD INDUSTRIES
(continued)

4. That private indexers contribute to this one source, as it would bring about greater understanding and better classification.

5. That some form of cross-indexing of abstracts be set up - a system involving the cross-indexing of subjects only and referring to the abstracts was suggested.

6. That letters be sent to all those scientifically interested in poultry asking them to state those topics and subjects in which they are especially interested. In this way, those subjects which are of the greatest general interest would be covered.

Notice is hereby given that the Institute desires to correspond with any and all people interested in either contributing to or using the service.

Poultry Products Library Service

In exploring specific industry problems, the research worker is limited, as a rule, by the fact that he cannot conveniently consult all the related bibliographies due to (1) his lack of preparation in sciences other than his own specialty, and (2) the quantity of scientific bibliography which in the aggregate is too large.

Needless to say, a great deal of valuable time is saved by people engaged on these problems when the bibliographical data they consult are classified according to some convenient arrangement of subjects germane to the industry.

Aids to Research

Recognizing the need of certain library aids, and believing that a real service would be rendered to the hundreds of people interested in egg and poultry subjects, the National Advisory Committee on Research recommended to the Institute of American Poultry Industries four methods of approach:

- (1) Continuous study of problems answerable by research.
- (2) Continuous survey of related current literature.
- (3) Occasional critical reviews of all the literature in specific classifications.
- (4) Adequate bibliographical service in subjects related to eggs and poultry.

Abstract Service on Egg and Poultry Subjects

Among the recommendations of the Advisory Committee in connection with Item 4 is one to continue and to enlarge the abstracting service begun two years ago by the Institute in cooperation with the University of Illinois.

It is the expressed policy of the Advisory Committee that the Institute should not attempt to build up an independent abstracting service. What it is doing chiefly is to collect abstracts from good sources relating to eggs and poultry, re-arrange and reproduce them for the convenience of people interested in these subjects. Such people are found not only in commerce but in practically all of the Land Grant colleges and in many research institutions.

ON THE VALUE OF ORGANIZED LIBRARY RESEARCH
IN THE AGRICULTURAL AND FOOD INDUSTRIES
(continued)

The abstract service began with references which were mainly concerned with chemical and physical studies of the egg and its different parts, with studies of the nutritive value of eggs and their physiological effects, and with studies of the factors concerned in determining the quality of the egg for human consumption. The references were taken largely from the general card index on nutritional and related subjects of the Division of Animal Nutrition at the University of Illinois; which has been accumulating for the last 15 or 20 years.

Because of requests received for continuing this service, the Institute of American Poultry Industries, about a year ago, employed the services of Mrs. Elizabeth Gore Curzon to continue abstracting all material on eggs as covered in the original set and to include special material on poultry - for a complete list of subjects see pages 135 and 136. Mrs. Curzon is under the direct supervision of Miss M. Helen Keith, first assistant in animal nutrition at the University of Illinois, and outstanding bibliographer.

The abstract service is located at the University of Illinois and is supervised by: L. E. Card, professor and chief in poultry husbandry; H. H. Mitchell, professor and chief in animal nutrition; and Mary E. Burwash, agricultural librarian - who act as an administrative committee on the abstract service supported by the Institute.

These abstracts are available on 5 x 8 blue printed, all-rag cards, at a minimum price of two cents per card for continuous service. Each month about 100 new cards are added to the file.

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SUBJECTS FOR DISCUSSION
AT THE AGRICULTURAL LIBRARIES SECTION MEETING.

In connection with the meeting of the Agricultural Libraries Section at Richmond on May 10, attention is again called to the fact that the program is being planned so as to give time at the close for informal discussion of various subjects by groups. Miss Grace Barnes, Chairman of the Section, will be glad to be informed as soon as possible in regard to any subjects those attending the conference would like to have discussed. Her address is: University of Maryland Library, College Park, Maryland.

Offers

The Flora of Columbia, Missouri and Vicinity. An ecological and systematic study of a local flora. By Francis Potter Daniels. Univ. of Missouri, Jan. 1907. (The University of Missouri Studies, Science Series, vol. 1, no. 2) \$1.50

Quatorzième Congrès de Chimie Industrielle. Paris, 21-27 Octobre 1934. Communications présentées. Tome I and II. Paris, Chimie et Industrie.

Royal horticultural society. Report of the third international conference, 1906, on genetics. London. \$1.50.

Sudan government. Annual report of the Gezira. Agricultural research service for the year ended 31st December 1934. Relating to experimental results obtained in the season 1933-34. 170 p.

Union internationale des Instituts de recherches forestières. Congrès de Nancy, 1932. Comptes rendus. Imprimerie Berger-Levrault, Nancy-Paris-Strasbourg, 1933. 896.p. \$5.25.

Verhandlungen des Deutsch-Russischen Scharlach-Kongresses vom 11.-A. Juni 1928 in Königsberg Pr .50.

Weniger, F. C. Die grundlagen des türkischen ackerbaus. 475 p. Leipzig, 1934. \$1.00.

Wagner, Christof. Grundlegung einer forstlichen Betriebslehre. Ein Lehrbuch für Theorie wie Praxis. Berlin, Julius Springer, 1935. .75.

LOST BOOKS

The following books cannot be found. It will be appreciated if anyone having information in regard to them will notify the Loan Desk of the main Library:

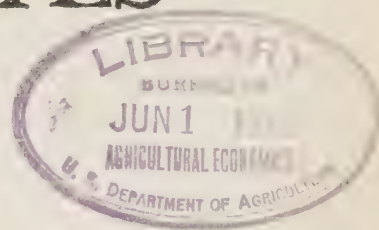
U. S. Department of Agriculture, Graduate School.
Elements of personnel administration. 1935.

U. S. Department of Agriculture. Department Circulars
113-170. 1920-1921.

Arizona. Agricultural Experiment Station. Technical
Bulletins 43-51.

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ISSUED MONTHLY
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UNITED STATES DEPARTMENT OF AGRICULTURE LIBRARY
WASHINGTON
D. C.

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Agricultural machinery

NEWMAN, J. E. Notes on the technique of mechanized farming. Oxford, Institute for research in agricultural engineering, University of Oxford, 1934.

Botany

JAMES, W.O., and CLAPHAM, A.R. The biology of flowers. Oxford, Clarendon press, 1935.

KOLKWITZ, R. Pflanzenphysiologie. Ed.3. Jena, Fischer, 1935.

KÜHNER, R. Le genre Galera (Fries) Quélet. Paris, Lechevalier, 1935. (Encyclopédie mycologique)

LAWRENCE, W.E. A laboratory manual for the study of general botany. Ed. 5. Corvallis, Ore., O.S.C. cooperative association, 1935.

McFARLAND, J. Horace, co. Finding-list of plants at Breeze Hill gardens, Harrisburg, Pa. Ed. 8. [Harrisburg? Pa., 1935]

REID, Mrs. E.M., and CHANDLER, M.E.J. The London clay flora. London, British museum, 1933.

SMITH, K.M. Plant viruses. London, Methuen, 1935.

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POTTER, J. M. Cattle trails of the Old West. Clayton, N.M., Leader publishing company, 1935.

Chemistry

BUCHAREST. UNIVERSITATEA. FACULTATEA DE FARMACIE. LABORATORUL DE CHIMIE ANALITICA. Inaugurarea Laboratorului de chimie analitica. Dare de seama asupra activitatii laboratorului 1925-1934. Bucuresti [1935?]

CLAYTON, W. The theory of emulsions and their technical treatment. Ed. 3. London, 1935.

FIESER, L.F. The chemistry of natural products related to phenanthrene. New York, Reinhold, 1936. (American chemical society series of scientific and technologic monographs, no.70)

HICHINBOTTOM, W.J. Reactions of organic compounds. New York, Longmans, Green, 1936.

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DEARBORN, N.H. Once in a lifetime; a guide to the CCC camp. New York, Merrill, 1935.

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- BOUÇAS, V.F. O tratado de commercio Brasileiro-Norte-Americano. Rio de Janeiro, Serviços Hollerith [1935]
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- DAVIES, W.L. The chemistry of milk. London, Chapman & Hall, 1936. (A series of monographs on applied chemistry. v.10)
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- DENLEY, C.F. Ornamental pheasants. [Washington, Printed by Judd and Detweiler] 1935.
- DOEHNER, H. Die feinheit und festigkeit der deutschen schafwollen. Berlin, Parey, 1935.
- HAZELTON, J.M. History and hand book of Hereford cattle and Hereford bull index. Ed. 3. Kansas City, Walker publications, 1935.
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Economic geography

- BUCHANAN, R.O. An economic geography of the British empire. London, University of London press, 1935.

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- BAARS, I.A.W. Het verbruik von algemeen benoodigde consumptieartikelen. The consupntion of generally used commodities. A dynamic method of calculation of changes in economic structure. Haarlem, De erven F. Bohn, 1933. (Nederlandsch economisch instituut. Netherlands economic institute. [Publications] nr.4)
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- BEARD, G. Prices and prosperity. Manchester, Kennedy press, 1935.
- BELGIUM. BUREAU d'ÉTUDES SOCIALES. L'exécution du plan du travail. Ed. 2. Anvers, 1935.
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- VAIANI, P.R. Las reales fantasías. La tierra del fisco, su colonización, el fomento industrial, la policultura agrícola, su población. Buenos Aires, 1933.
- WICKSELL, K. Interest and prices (Geldzins und güterpreise); a study of the causes regulating the value of money. Translated from the German by R.F. Kahn. London, Macmillan, 1936.

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The place of reclamation in the national agricultural policy. An address by M.L. Wilson before the Institute of irrigation agriculture at Salt Lake City, Mar. 11, 1936. 16 p.

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An analysis of the possibilities of increasing returns to dairy farmers through the subsidization of exports of butter from the United States. 1936. 28 p. (Paper no.1, Dairy foreign trade series)

The California-Arizona citrus marketing agreement program. Questions and answers. 1936. 5 p.

Economic brief with respect to the proposed order for the Fall River, Massachusetts marketing area. By P.L. Miller, O.M. Reed, and E.E. Warner, 1936. 81 p. (Paper no.2, Series on marketing agreements and orders)

Economic brief with respect to the proposed milk marketing agreement for the San Diego, California, marketing area. By O.H. Hoffman and E.E. Warner. 1936. 104 p. (Paper no.3, Series on marketing agreements and orders)

The Florida citrus industry's situation. 1936. 3 p. (Issued by General crops section.)

Marketing agreements, orders and licenses of the Agricultural adjustment administration in operation and those terminated by the secretary. Mar. 3, 1936. 9 p. (Compiled by the Field investigation section)

Summary of address by Chester C. Davis in Thorne Hall, Northwestern university, Chicago, Ill., March 12, 1936. 5 p.

Summary of provisions of the soil conservation and domestic allotment act. 1936. 4 p.

Tentatively approved marketing agreement for handlers of fresh lettuce, peas and cauliflower grown in western Washington. 1936. 18 p. (Docket no. A-15)

*Bibliographies included in general list of bibliographies on page 241-242.

**For a list of the principal series issued regularly, see v.9, no. 10, p.354.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Agricultural Adjustment Administration (continued)

- Tentatively approved marketing agreement for handlers of fresh peas and cauliflower grown in the counties of Alamosa, Rio Grande, Conejos, Costilla, Custer and Eagle in the state of Colorado. 1936. 16 p. (Docket no. A-13)
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OFFERS

The Library of the Oregon State Agricultural College, Corvallis, will send free (except for transportation) the following publications of the former Oregon Bureau of Mines and Geology:

Report...for the biennium 1911-1912.
Report 1921-1922. (Last report issued)

Mineral Resources of Oregon.

- v.1, no.8. Ore deposits of Northeastern Oregon, by A. M. Swartley.
Dec. 1914.
- v.3, no.1. Report on investigation of oil and gas possibilities
of Western Oregon, by Harrison and Eaton. March 1920.
- v.3, no.2. Report on oil and gas possibilities of Eastern
Oregon, by John P. Buwalda. July 1921.
- v.5, no.3. Report on the limonite iron ores of Columbia County,
Oregon. May 1923. (Ceased publication with this issue)

Bulletin no.1. Road materials in the Willamette Valley. Jan. 1911.
2d ed. Jan. 1912. (Oregon Agricultural College. Bulletin 46)
Economic geological resources of Oregon. 1912. (Oregon
Agricultural College. College Bulletin Extension series 5, no.2)

The Division of Economic Information of the Bureau of Agricultural Economics, U. S. Department of Agriculture, has copies of the following publications of the International Institute of Agriculture, which it will distribute to agricultural colleges and experiment station libraries having need of copies.

International Yearbook of Agricultural Statistics

1913-14 (1 copy)	1925-26 (1 copy)
1915-16 (1 copy)	1926-27 (1 copy)
1922 (2 copies)	1927-28 (2 copies)
1923 (4 copies)	1928-29 (2 copies)
1924-25 (3 copies)	

Legislation Agricole

1912 (34 copies)	1923 (3 copies)
1915 (1 copy)	1924 (1 copy)
1916 (2 copies)	1925 (8 copies)
1917 (1 copy)	1926 (5 copies)
1918 (1 copy)	1927 (12 copies)
1919 (1 copy)	1928 (5 copies)
1920 (1 copy)	1930 (2 copies)
1921 (4 copies)	1931 (4 copies)
1922 (1 copy)	1932 (1 copy)

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REFERENCES ON JOHNNY APPLESEED

Compiled by Everett E. Edwards, Agricultural Economist
U. S. Bureau of Agricultural Economics.

Concerning John Chapman, popularly known as Johnny Appleseed, there is a plethora of legend, fiction, and anecdote, but a scarcity of authenticated facts. It is practically impossible to segregate the latter, and perhaps it is just as well to leave him as part of the folklore of the Old Northwest.

Many references have gradually accumulated in the present compiler's files during his searches for material relating to the history of American agriculture, and the perennial interest in Johnny Appleseed seemed to justify the presentation of the bibliographical items relating to him in a separate list. No attempt has been made to indicate the duplication in the contents of the citations, much less their genealogy, as it has been impracticable to have all of the materials at hand at one time.

To insure completeness, the card catalogs of the U.S. Department of Agriculture Library and the Library of Congress have been consulted, and the following indices have been checked: the Agricultural Index, 1916-April 1936; the International Index to Periodicals, 1920-March 1936; Poole's Index to Periodical Literature, 1892-1906; Readers' Guide to Periodical Literature, 1909-Apr. 25, 1936; Readers' Guide to Periodical Literature, Supplement, 1907-1919; and Grace Gardiner Griffin's Writings on American History, 1906-1930.

The compiler appreciates the cooperation of those who have aided in verifying the citations and of those who have allowed him to examine clippings in their files. In the interest of completeness, he will welcome suggestions of pertinent additions.

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PERSHING, HENRY A. Johnny Appleseed and his time; an historical romance. 379 p., illus. Strasburg, Va., Shenandoah Pub. House. 1930.

According to the title-page, this volume is the "first complete biography of him ever printed." It includes illustrations from photographs, woodcuts, scenes of his wanderings, his autograph, and many other interesting pictures.

Review: Eugene H. Roseboom, in Miss. Valley Hist. Rev., 18:406-407 (December 1931).

REFERENCES ON JOHNNY APPLESEED

Signed Articles and Books (continued)

PUTNAM, MRS. GRACE. Monument to Johnny Appleseed. Green's Fruit Grower 34 (11):25. November 1914.

A brief letter to the editor concerning the monument at Mansfield, Ohio.

[RANDALL, E. O.] Pocket-book of Appleseed Johnny. Ohio Archaeological and Hist. Soc. Quart. 11:256-257. October 1902.

RICE, ALONZO. Johnny Appleseed. Ind. Farmer 65 (4):10. Jan. 22, 1910.

RICHARDS, M. W. [At the unveiling of the Johnny Appleseed monument.] Country Gent. 81:1302, illus. July 1, 1916.

The article is mostly a reminiscence of J. B. Pirson of DeKalb County. The picture is of the monument in Swinney Park at Fort Wayne.

[RICHARDS, M. W.] Johnny Appleseed memorial; notes by the secretary. Ind. Hort. Soc. Trans. (1916) 56:304-317, illus.

A description of the ceremonies at the unveiling of the memorial in Swinney Park.

_____. Tribute to "Johnny Appleseed." Fruit-Grower 27:310-311, illus. June 1, 1913.

A sketch of the life of Johnny Appleseed followed by an account of the unveiling of the monument at Swinney Park. The illustrations show the scroll that was put into the crypt in the monument; the huge granite boulder used as the monument; and the memorial exercises at the unveiling.

SMITH, E. R. Johnny Appleseed, a pioneer orchardist. 7 p., illus. (n.p.) 1913.

The contents of this pamphlet is the same as the author's article, "Johnny Appleseed, A Pioneer," Ind. Hort. Soc. Trans. (1916) 56:403-407.

_____. Johnny Appleseed memorialized at Indiana centennial pageant, Indianapolis, Oct. 2-7, 1916. Ind. Hort. Soc. Trans. (1916) 56:436-438.

The author quotes at length from the section, "St. Francis of the Orchards," in William Chauncey Langdon's Pageant of Indiana.

[_____] The progress on the proposed memorial to Johnny Appleseed. Ind. Hort. Soc. Trans. (1916) 56:336-337.

A section of the minutes of the executive board of the Indiana Horticultural Society.

SNIDER, DENTON J. The Freeburgers; a novel. 432 p. St. Louis, Sigma Pub. Co. 1890.

Johnny Appleseed is the principal character in this story.

[_____] Johnny Appleseed's rhymes. Edited by Theophilus Middling (pseud.), with notes and explanations of various commentators. 411 p. St. Louis, Mo., Sigma Pub. Co. 1895.

SNYDER, MILES J. More about Johnny Appleseed. Green's Fruit Grower and Home Companion 28 (6):15, illus. June 1908.

REFERENCES ON JOHNNY APPLESEED

Signed Articles and Books (continued)

SOMERS, LEE A. The history of some horticultural plants. ILL. State Hort. Soc. Trans. 68:344-352. 1935.

See p.347 for a brief note on Johnny Appleseed.

TALBERT, THOMAS J. Some interesting facts about apples. Amer. Fruit Grower Mag. 47 (1):9, 26, illus. January 1927.

Johnny Appleseed, p. 9.

THREE RIVERS FORUM. [The true facts of the life and death of John Chapman.] 2p.

A press release incident to an hour's broadcast by W. S. Roebuck and Chester L. Teeter over Radio Station WOWO, Dec. 4, 1934.

VAN NATTER, FRANCIS MARION. The appleseed evangelist. Natl. Republic 23 (7):6-7, 32, illus. November 1935.

The author states that Mrs. Ernestine Perry, of Springfield, Mass. "recently announced the discovery of records proving that John Chapman was born at Leominster, Massachusetts, September 26, 1774; that he moved to Springfield at the age of two years and spent the rest of his life here, up to the age of 18 when he went west," and that Miss Eva Peck of the Fort Wayne, Indiana, City Library has recently found a death note of John Chapman in the Fort Wayne Sentinel for Mar. 22, 1845 stating that he had died "on Tuesday last...."

WATSON, ELMO SCOTT. Johnny Appleseed, patron saint of Arbor Day? Twice a Week News (Charles City, Iowa) Apr. 22, 1927.

The article includes a drawing of Johnny Appleseed and pictures of his grave and monument at Fort Wayne, Indiana.

WEBB, WALTON HOLMES. Offers cash prize for letter about Johnny Appleseed. Packer 23 (27):21 AAAA. Aug. 7, 1926.

A letter from the founder of the Johnny Appleseed Club offering a prize of \$5 for suggestions of ways by which the club may spread a knowledge of Johnny Appleseed. The letter is accompanied by an article reprinted from the Packer for Oct. 17, 1925.

WELLER, ARTHUR. Paul Revere of the West. Natl. Republic 20(3):19-20, illus. July 1932.

WILLIAMS, WILLIAM W. History of the Fire lands, comprising Huron and Erie counties, Ohio, with illustrations and biographical sketches of some of the prominent men and pioneers. 524 p., illus. Cleveland, Ohio, Press of Leader Print. Co. 1879.

WILSON, CHARLES S. Introduction of the apple into America and New York State. N.Y. Dept. Agr. Bull. 79 (1):743-760, illus. January 1916.

Appleseed John and the apple in the West, p. 755-756.

WRIGHT, RICHARDSON. Hawkers & walkers in early America. 317 p., illus. Philadelphia, J. B. Lippincott Co. 1927.

See p. 214-215 for material on Johnnie Appleseed. Excerpts from these pages are printed with the title, "How Johnny Appleseed Made the Earth Fruitful," in Lit. Digest, 97 (4):46,48 (Apr. 28, 1928).

RURAL PROBLEMS AS REFLECTED IN CURRENT FICTION

By Caroline B. Sherman, Associate Agricultural Economist,
Bureau of Agricultural Economics.

We are all well acquainted with the good librarians' theory that we and the reading public are too fiction minded. If the fiction they have in mind is drugstore fiction, well and good. If the fiction to which we give too much of our reading time is the better or best fiction, I am Philistine enough to challenge the dictum rather boldly. One of our keen analytical critics whose time was pressed by many duties said that for the realistic novel which enlarges and quickens our consciousness of the world we live in - especially for the novel in which the characters, setting, and 'problems' possess a genuine representative value - he had an almost insatiable appetite. With one-half of our population living in the country it is evident that if our best fiction has become truly representative and so it certainly is today, books that reflect country life and country characters, and the rural social and economic problems among which they live, will be frequent among our best fiction.

That thoughtful readers can be too indifferent to fiction is the belief in some of the other professions. One of our leading rural sociologists through several editions of his textbook has urged that rural fiction receive more attention as a promising level of study, because of the well-rounded and interpretive picture it can give of both motivations and results and because of the excellence of the methods of the best novelists. Another educator from one of our large universities recently urged a group of rural leaders to make more use of rural fiction in their work for much the same reasons. He valued the varied vicarious experience to be had through reading more than do most psychologists and he daringly stated that the best novelists convey more to his adult teacher-students than many psychologists do. Again one of the leaders in the medical profession has devoted his few and scattered hours of ease to following the doctor in fiction and has reported on his readings and his deductions at one of their annual meetings.

As there are probably few among us who go freely in and out of farm houses, among farm people, and over their farms, winter and summer, day after day and year after year, we probably are more dependent upon fiction for an understanding of these country families and their conditions than we are in the case of our ever-present sisters and brothers. These we have always with us. It is true that we have had an avalanche of books dealing with current questions including acute agricultural problems, but especially in the case of the latter group few of these problems are considered with the human element chiefly in mind.

Fiction of today well meets this need of ours. In fact, for many years fiction writers have been giving us understanding and comprehensive stories of life on the farm, its hardships and its satisfactions, its differences and its likenesses. Strong characterization, excellently drawn settings, and good literary style and craftsmanship, are found in them. Plot is usually subordinated but the element of drama is often there. Some of the books have been built around one strong personality; other books have featured economic conditions and problems with varying success whether from an effective or an artistic

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(continued)

standpoint. During recent years, some of the fictional treatment of rural social and economic conditions and changes has been particularly successful.

The best of this rural fiction has always been well received. Because of the wording of the award, the Pulitzer Prize Committee seemed at first to turn particularly to rural fiction. Reading the titles that carried off the fiction prizes during the first several years is like reading a list of farm-life fiction. A change in the wording of the award shifted the choice more toward regional fiction but the titles were still usually distinctly rural. Farm-life fiction and popular non-fiction have won many other awards as well. This year is no exception for the Pulitzer fiction award has just gone to a distinctly rural novel that had already won the Harper novel prize--Honey in the Horn.

Regionalism is of course the force in modern writing that has brought rural fiction particularly to the fore. American farming is not merely American farming. Eastern farming differs from western farming, northern from southern, hilly farming from level farming. The characteristics of the region affect the ways and attitudes of the people almost as much as they do the ways of the farm. Therefore rural fiction fits particularly well in our regional scheme of literature and so, in recent years, have rural life and rural problems, in the terms of very real and understandable and varied personalities, been particularly well-reflected in fiction. This means that we now have tales of the development of newer parts of our country whose evolution has seldom been sung as have the pioneer days of our great Midwest. Middlewestern novels have bid fair to form a school of fiction among themselves and the accretions to this body of writing are still many and interesting. But at last some of the other newer areas are coming into their own on the shelves of fiction by means of stories that often seem to be quite as true to life as many of our biographies and other books usually designated as non-fiction. Then some of the latter-day novels of rural life in the older regions have revealed their problems and adjustments in a way that makes us see them in a new light or with a new understanding.

Among these recent books we have at last a fairly adequate reflection of the so-different persons, kinds of farming, and rural problems that make up our vast heterogeneous country. Within the last year or two, to mention only a few instances, we have had Davis' Honey in the Horn, dealing with rural Oregon in its pioneer period of the early part of this century, its shifting pioneer people and its rural pioneer or developmental industries. We have the Colorado beet fields in Second Hooping by Hope Williams Sykes in which she shows the painful adjustment of the patriarchial Russian families to the dynamic American materialistic ways. We have Edwin Lanham's well-told tale of the promotional development of a representative locality in West-Central Texas with its visions, its fakes, its disappointments, in The Wind Blew West. Incidentally it reflects the widely differing viewpoints of the white settlers and the red Indians with an understanding of each that is rare in so young a writer. Now the publishers are listing a whole row of books, fictional and otherwise, about Texas and its development in connection with the Texas Centennial. We have

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(continued)

John Oskison's Brothers Three reflecting the development of Indian Territory into the State of Oklahoma, the allotment of land to those of Cherokee blood, the development of a huge landed estate, the amalgamation of the Cherokees with the whites to make doubly-true Americans. We see the encroachment of new ideas, see them seized by the younger generation without far-sighted thought as to whether they would fit the peculiar conditions of the ranch; and we see the near-tragic results of attempting to use the get-rich-quick methods of the new Eastern financiers on a property that had been developed decade by decade with a fundamental foresight.

The Midwest, past and present, again is in the forefront with Nebraska holding the searchlight through Bess Aldrich Streeter's Spring Came On Forever, Dorothy Thomas' appealing story called Home Place and Sophus Keith Winther's Take all to Nebraska. Paul Horgan's Main Line West leads out of the Kansas wheat country. But the country bordering the Midwest now comes in for a share of attention. Josephine Johnson's tragic but beautifully written Now in November tells of a Missouri farm family in the depths of depression with individual problems to deal with as well. Kantor's Voice of Bugle Ann reflects the havoc brought to the picturesque country business of raising and training hounds by the coming of fences in the Ozarks. Kentucky farm life is the scene of Elizabeth Madox Roberts' biblically flavored He Sent Forth a Raven in which the post-war farm difficulties are foreshadowed. Head o' W-Hollow is full of short stories of the Kentucky hill people, by Jesse Stuart, heretofore known only by his verse.

Turning South, Marjorie Rawling's Stories of rural Florida South Moon Under and Golden Apples, deal with the people peculiar to the "hammock country". Erskine Caldwell's debated modern story Tobacco Road is set in rural Georgia, as was Caroline Miller's very different story of the past, Lamb in His Bosom. Paul Green's study of tenancy and of the hopelessness of many of the "poor whites" in This Body the Earth, is located in North Carolina as is Kathleen Morchone's Rain on the Just.

Ellen Glasgow's Vein of Iron, shows how the vicissitudes of mountain valley life in Virginia have changed a once-dominant family to one of high-minded poverty. Going to Richmond as a place where gainful work can be found by the young girl, since neither farming nor preaching is longer possible for the father, and modern educational methods have deprived him of his little private school, they soon meet the general depression as it strikes Richmond with full force. Our Fincastle family faces hunger; in the end they turn back to the mountain-valley home again for the fine old house, although abandoned and dilapidated, will give them shelter, and the handful of vegetables and fruits, the remnants of the old orchard and garden will yield, will insure the necessities of food which the bare streets of the city cannot do. Going North, we have Elaine Goodale Eastman's Hundred Maples that indicates clearly the necessary differences between the New England way of farming and the extensive farming of the Midwest and the specialty farming of the Pacific Coast.

Then we have this surprising outgiving of well-considered and well-written fiction about changing New England which forms a story in itself. For a long time we have heard much through fiction and otherwise of the winning of the West and the making of pioneer farms there, usually by men and women who came from the East and often from New England. But during all this time practically nothing truly revealing was written about what had happened in New England when this vigorous young blood was being drained away.

At last we have the story on the other side of the shield and a heroic and absorbing story it is. For we learn that not once but over and over again has rural New England met great economic changes that have shaken its rural economy and its old rural families to the foundations. Perhaps it takes a generation like this present one to view all of these changes in their proper perspective and with an objectivity that makes possible a balanced story, and yet tells the story, with the requisite touch of sympathetic and subjective imagination.

Through recent fiction we have realized as never before the supremacy that New England reached through mastery of the whaling industries of early days. A mastery, centered in Nantucket, which took the sea captains, and the plainer folk too, to the far reaches of the globe, making them in a way among the most traveled people of their time. A mastery that led other commercial countries in far parts to call on Nantucketeers to organize and conduct their whaling activities. Through fiction we have seen the competition of other oils arise and develop, and have seen the decline and decease of this once vital and wealth-creating industry.

Through fiction we have followed the Gloucester fishermen. Through fiction we have spent superficial summers on the New England coast with Booth Tarkington. Through fiction we have visited February Hill with Victoria Lincoln, who, according to a reviewer in the Survey, understood her people and their problems better than many case workers would. Through fiction we have seen Cape Cod from its colorful yesterdays to its quaint todays.

But above all, through our newer fiction we have learned about the great State of Maine and its people, and how they have weathered gale after gale of adversity on both land and sea. Until the last few years Maine has figured little in our stories of New England but today it holds the major attention. If we were to criticise Mary Ellen Chase's latest novel, Silas Crockett, it would be on the score that it follows almost too patently the log books and records of the Crockett family and the community, even to foot-notes, as it carries its four generations of Crocketts through their economic and social life story. At the beginning of the book the family leads in the era of building the famed clipper ships from the forests of Maine and in the sea-faring days of wealth and glory that made Maine names known in ports and seas the world over. The proud sails gradually fold under the terrific competition of steam, and again we see the death of a great and romantic era and the passing of the princely men that the nature and the supremacy of their calling had bred. The next generation must turn to the inglorious and monotonous coastwise

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(continued)

vessels; and then the coastwise lines begin to merge-- schedules are consolidated and short runs are discontinued. At least one in the third generation turns to the heart-breaking and body-breaking experiences of the fishing boats off the Banks and loses his life thereby. His son is driven to the dreaded work that earlier generations of his family would not have tolerated in their communities--in the ill-smelling and repelling fish factories. Now we learn that even the sardine and salmon industries are disappearing from the coast of Maine so that it is necessary to go further and further out to sea for the catch and only the stronger companies can make this profitable. It remains only to open the fine old homes to the summer boarders so scorned by the stalwart older families, or to sell these early mansions and the treasures they hold that have been gathered from the Seven Seas.

Less comprehensive but perhaps for that reason the more richly realized and written are Miss Chase's Marv Peters and Rachel Field's ripe and mellow book Time Out of Mind. Both deal with segments of this same saga of the shipbuilding and seafaring families of Maine. They read like companion publications but were issued only a few months apart and by the same publisher, thus well illustrating how spontaneous is this newer intense wish to tell and to read of this long-neglected phase of the making of our country. This same segment of this saga is reflected again but in briefer guise and a heightened drama in Robert Tristram Coffin's Red Sky in the Morning--a gripping and vital story that is yet told in a way that resembles etching on glass or frostwork on the window pane.

Gladys Hasty Carroll's more reposeful books As the Earth Turns and A Few Foolish Ones deal more specifically with the interior farms of Maine, hence more particularly with farm life. They too reflect not only the economy of the farm but also the great economic changes of rural New England. The decline and the changes in the nature of New England populations is shown together with a suggestion of the hopeful possibilities of the American melting pot. New England at first would not admit a racial melting pot within its borders as it watched resentfully while alien and populous races from Southern Europe made these northern and stony acres bloom and bear as their own industrious efforts had never succeeded in doing. Cornelia James Cannon had pointed the way to this solution in her New Hampshire story Hevis and Edna Ferber later touched on it in American Beauty. Mrs. Carroll's stories well indicate the adjustments that have been necessary to meet these various changes and yet maintain the integrities of life.

Yes, if we would know rural America well, as it was and as it is, and if we would know the people of rural America well, as they were and as they are, and how they have changed through growth or through decline from the past to the present, and wherefor and why, I recommend that we turn of course to the histories and biographies and books on economics and sociology with which our shelves are filled but that we turn just as surely and about as confidently to the shelves that are frankly marked Rural Fiction.

COMMUNICATION OF THE INTERNATIONAL COMMITTEE
OF AGRICULTURAL LIBRARIANS

By Dr. Sigmund von Frauendorfer, Secretary

Since the last report on the International Committee of Agricultural Librarians*, further consideration has been given to the proposed affiliation of the Committee with the International Federation of Library Associations. Very few replies, however, have been received from the members of the Committee as to the possible way of bringing about this affiliation. According to a letter dated January 29, 1936, from Dr. Sevensma, Secretary General of the Federation, the annual membership would have to be fixed at the maximum of 0.50 Swiss francs for each member, because the members of the Committee would have to be considered not as individuals but as representatives of their respective organizations. Since the next meeting of the International Federation of Library Associations will be held at Warsaw from May 31 to June 2, it seemed advisable to come to an early solution of this problem. Unless the Warsaw meeting decides on the relations between the Federation and the Committee, the whole question will have to be postponed indefinitely. It is therefore proposed to accept in principle the affiliation by way of active membership with the Federation. In view of the very modest contribution required there is hope of finding means of financing the membership, also in case some members should not be willing to pay for the membership themselves.

The list of agricultural periodicals received by the Library of the International Institute of Agriculture has been sent to all members of the Committee. The members have been asked to examine the periodicals of their respective countries in order to find out whether the titles given in the list are representative of the agricultural press of the country, or whether there are serious gaps and omissions. Grateful acknowledgment is due to the representatives of the following countries for their painstaking and helpful replies: Austria, Denmark, France, Germany, Norway, Spain, Turkey, Sweden, and the United States. The remaining members of the Committee are requested to send in their answers to the Secretary of the Committee as soon as possible.

The International Institute of Agriculture is preparing a world list of agricultural libraries and information centers. In order to make this list as complete and useful as possible, questionnaires have been sent to the agricultural libraries in the various countries and will have been received by all the members of the Committee. Since this work is closely connected with the activity of the Committee, all members will undoubtedly be kind enough to answer the questionnaire as fully as possible. The Institute hopes to be able to publish this list at the end of 1936.

A further work closely connected with the program of activity of the Committee has been initiated and nearly completed. It is an annotated list of current agricultural bibliographies of the various countries of the world, compiled by Mr. Victor A. Schaefer, exchange librarian at the International Institute of Agriculture for the period 1935/36, at present at the Library of the University of Michigan.

*Agricultural Library Notes, December, 1935, p. 325.

COMMUNICATION OF THE INTERNATIONAL COMMITTEE
of Agricultural Librarians
(continued)

Since the publication in Agricultural Library Notes for December 1935 of the list of members of the Committee, several additional members have accepted appointment. The complete list now is as follows:

- Austria: Dr. Rudolf Harrer, Librarian, Hochschule für Bodenkultur, Vienna.
- Bulgaria: Prof. L. Stranski, Librarian, Faculté Agronomique, Université de Sofia.
- Canada: A. Louise Shaw, Librarian, Department of Agriculture, Main Library, Ottawa.
- Czechoslovakia: Dr. Jan Bostik, Librarian, Czechoslovakian Academy of Agriculture, Prague.
- Denmark: Max Lobedanz, Librarian, Kgl. Veterinaer og Landbohøjskole, København.
- England: C.H. Hooper, Librarian, South-Eastern Agricultural College, Wye, Kent.
- France: Prof. L. Mila, Manager, Service Bibliographique de la Société des Agriculteurs de France, Paris.
- Germany: Richard Mührer, Librarian, Landwirtschaftliche Hochschule, Berlin.
- Italy: Dr. Sigmund von Frauendorfer, Librarian, International Institute of Agriculture, Rome. (Secretary).
Prof. Guglielmo Masci, Librarian, Ministry of Agriculture and Forests, Rome.
- Netherlands: Dr. R. L. Kooiman, Librarian, Landbouwhoogeschool, Wageningen.
- Norway: Arne Johnson, Librarian, Norges Landbruks Høiskole, Aas.
- Poland: Dr. S. Lewicky, Librarian, Agricultural College, Pulawy.
- Spain: Fernando G. Luna, Chief, Agricultural Publications, Library of the Department of Agriculture, Madrid.
- Sweden: Dr. Per Hebbe, Librarian, Lantbrukshögskolan, Uppsala.
- Turkey: Dr. J. Stummvol, Librarian, Agricultural College, Ankara.
- U.S.S.R.: Prof. P.J. Gouroff, Bibliothèque de l'Académie des Sciences Agricoles, Moscow. (Elected, acceptance pending)
- United States: Claribel R. Barnett, Librarian, U.S. Department of Agriculture, Washington, D. C. (President)
Charles H. Brown, Librarian, Iowa State College, Ames.

Connection with the American Library Association and its Committee on International Cooperation has been secured through a Sub-committee on International Cooperation with Agricultural Libraries. The President of the American Library Association has appointed the following members as the Sub-committee: Claribel R. Barnett, Librarian, U.S. Department of Agriculture, Chairman; Dr. J. Christian Bay, Librarian, The John Crerar Library, Chicago, Illinois; Charles H. Brown, Librarian, Iowa State College, Ames, Iowa; Lucy M. Lewis, Director of Libraries of Higher Education in Oregon, Corvallis, Oregon; Willard P. Lewis, Librarian, Pennsylvania State College, State College, Pennsylvania; Mrs. Lois B. Payson, Librarian, Montana State College, Bozeman, Montana; Jackson E. Towne, Librarian, State College, East Lansing, Michigan; A. Louise Shaw, Librarian, Main Library, Department of Agriculture, Ottawa, Canada; P. L. Windsor, Librarian, University of Illinois, Urbana, Illinois.

By Katharine Jacobs, Cataloguer,
Library, Bureau of Agricultural Economics.

The fact that agricultural experiment station bulletins and state extension publications conform to a prescribed standard was recently emphasized by Dr. M.C. Merrill, Chief, Division of Publications, U.S. Department of agriculture in an illustrated lecture entitled "Measuring Format and Style of Agricultural College Bulletins." The subject of the lecture was a thesis by Wilford D. Porter, for his Master's degree at the University of Wisconsin.

The lecture was attended by agricultural editors who could appreciate a minute analysis and comparison of the physical construction of these bulletins. A standard has been set for the title-pages of these bulletins and circulars which gives the exact location of the series note, the title, the author's name and the imprint. The thesis shows the great care with which each state issues its series of experiment station and extension publications. The utmost care is taken with the illustrations, the length of lines, width of margins and other details.

Librarians of the country who handle these publications appreciate their excellence of form. But can this be said of the non-serial publications, particularly those that are mimeographed and issued by the experiment stations, extension services and other state agencies? The librarians who aim to record these publications fully in their catalogues can testify with one accord that the exact opposite is true.

It is realized that publications are mimeographed usually to make the information more quickly available. No doubt their authors may even disclaim any pretense to their being "publications." As the information contained in them is good and may prove valuable to some one working in the same field, it is a great pity that a little more care is not exercised in their set-up.

There are many of these non-serial mimeographed publications which are received in the U.S. Department of agriculture Library system which bear no date at all and often the place of publication is lacking.

The worst feature of all is the question of authorship. The state does not always designate an individual author and although desirable, it is not always necessary in recording the pamphlet. However, it frequently happens that the cooperating agencies are placed on the title-page in such a way that it is impossible to tell who really did issue the publication.

One of the most recent examples of the confusion which results is shown in the interpretation of the following book which is printed and not issued in a series:

Upper Freehold township; a survey of the life, resources and government of a New Jersey rural township, with a program for improvement. By the Bureau of agricultural economics, United States Department of agriculture, the New Jersey Department of agriculture, the Monmouth County agricultural extension service, the Upper Freehold better township association. Trenton, N.J., Published by the New Jersey Department of agriculture, 1935. 85p.

According to the rule of cataloguing which requires that a publication be entered under the first organization or government body on the title-page, the Library of Congress printed a card under U.S. Bureau of agricultural economics. The U.S. Department of agriculture Library had already made a stencil card for it under New Jersey, Department of agriculture as the

publication had been received there with a form letter from the secretary of the New Jersey Department of agriculture. This particular publication bore all the necessary information but the title-page itself caused the confusion. Had this publication been entered under U.S. Bureau of agricultural economics and included in Agricultural Economics Literature, by the Library of the Bureau of agricultural economics, requests for it would be sent to that bureau instead of to the New Jersey Department of agriculture, unless a long and involved note of explanation were written.

There are many other examples of the state publications which place the U.S. Department of agriculture first on the title-page when it is a cooperating agency only. Apparently this is done as an act of courtesy but when a place of publication is lacking it is often very difficult to find out just what body did issue the publication. In the case of the U.S. Department of agriculture library it is possible to locate the publications in its catalogue simply because added entries are made for all cooperating individuals and agencies. Many of these publications contain valuable contributions to the subject matter discussed, so that they are often included in bibliographies and lists. It is very much regretted that there may be errors in listing them, due to the loose construction of the publications themselves.

Listed below is a mimeographed report issued in three parts which caused the cataloguers trouble. Volumes 1 and 2 were received first and the final summary report several months later.

A study of certain aspects of corn belt agriculture in order to determine suitable policy for production reduction.

Progress report number I. Prepared for Production planning section of the Division of program planning. Agricultural adjustment administration, U.S.D.A. Washington, D.C., by Rainer Schickele, John A. Hopkins, T.W. Schultz, Ames, Iowa, April 28, 1934 (27p.)

Second progress report. Project. A study of certain aspects of corn belt agriculture in order to determine suitable policy for production reduction. [Slip pasted on at this point]: Prepared for Production planning section of the Division of program planning. Agricultural adjustment administration, U.S.D.A. Washington, D.C. [From this point mimeographed on title-page]: Active personnel responsible for the work done on this project. Crop and Soils Section: P.E. Brown, C.S. Dorchester, B.J. Firkins, F.B. Smith, W. H. Stevenson, R.H. Walker; Animal Husbandry Section: C.Y. Cannon, C.C. Culbertson, H.H. Mildee; Agricultural Economics Section: T.H. Cox, Charles Elkinton, Erling Hole, John A. Hopkins, Donald Keene, Keith Kirkpatrick, Rainer Schickele, T. W. Schultz. [Slip pasted at this point]: "Iowa State College, Ames, Iowa, September 21, 1934" (206p.)

Final summary report on the project: "A study of certain aspects of corn belt agriculture in order to determine suitable policy for production reduction." Prepared for Production planning section of the Division of program planning, Agricultural adjustment administration, U.S.D.A., Washington, D.C., by Rainer Schickele, Agricultural experiment station, Ames, Iowa, January 10, 1935 (37p.)

STATE PUBLICATIONS. THE CATALOGUERS' VIEWPOINT
(continued)

Who or what agency issued this publication? The U. S. Department of agriculture Library entered it under Iowa. State college of agriculture and mechanic arts, Ames. Is this correct? The cataloguers do not know.

A sheet recently received in the Library has title: Bee marketing agreement. Volume of business reported from January 1 - December 31, 1935 (by states). From Prof. J. M. Robinson, managing director of marketing agreement and license for shippers of package bees and queens, Auburn, Ala. March 1, 1936. In this case, we have an individual's name and address. The difficulty is to ascertain the state machinery for making marketing agreements. It was shown to some one in the Publication division of the Agricultural adjustment administration who could not enlighten us. The reason for our concern is that we fear it may be a forerunner of many similar publications. When the Agricultural adjustment administration is decentralized, it is not known whether the publications will be issued at Washington or whether each state or region will issue its own. It is certainly most desirable that a uniform standard for these publications be adopted.

It is not practicable to cite more publications from the great mass of state reports which are received, but it is hoped that the ones used will serve to point out some of the difficulties encountered in attempting to record them accurately. Mimeographed or typewritten cards have been made when it was not practicable to print an "Agr." card due to lack of complete information. Thus it is, that much excellent work is not given the publicity which a printed catalogue card affords. Since the installation in this library of a machine for duplicating cards, an author card for each publication for which there will be no printed card is run off and sent to the Library of Congress for the Union Catalogue. If the entry is incorrect, the publication is lost as far as the research worker is concerned. Therefore, it is important that the author or issuing office be made to realize that the library is really the author's best friend when it comes to making available the results of his research. When this is accomplished, it is believed that better title-pages will be made. The author's work would then reach more people and so would be more worth while from that viewpoint. And how the cataloguers would rejoice!

-O-O-O-O-O-O-

METHODOLOGY USED IN COMPILING A BIBLIOGRAPHY IN THE
FIELD OF AGRICULTURAL ECONOMICS

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Address, Annual Conference of American Library Association,
Agricultural Libraries Section, Richmond, Virginia,
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In the days when the New Deal was very young two members of the staff of the library of the Bureau of Agricultural Economics of the United States Department of Agriculture were working on an ambitious bibliography on the subject of land utilization and land policy in the United States and in foreign countries. The year 1933 was a strenuous one and many demands were made on the library, so work on the bibliography progressed very slowly. In the midst of the year's exciting events there came to our library one day a man from another government agency who was indirectly responsible for a change in our plans for this particular bibliography. His modest request was for all the material the library had on the subject of land settlement in foreign countries. Since the land utilization bibliography had been planned to include references on land settlement we had enough references, together with those we hastily collected from our catalogues, to satisfy his request for the time being. Whether or not this was the first knowledge we had received of the Federal Government's subsistence homestead scheme I do not remember. I do know, however, that the urgency of the request caused us to decide to concentrate on the land settlement phase of our bibliography and to postpone the completion of the other parts of it to some later date. The result of this decision was the Bibliography on Land Settlement with Particular Reference to Small Holdings and Subsistence Homesteads issued by the U.S. Department of Agriculture as Miscellaneous Publication No.172.

Taking this particular bibliography as an illustration, I shall try to describe to you the methodology of compiling a bibliography on an agricultural economics subject as practiced in our library. Methods vary somewhat with the individual compiler and with the subject studied, but the essential points are the same.

The first two important steps in the compilation of any bibliography are the definition of the scope of the bibliography and the preparation of

the compiler as to subject matter. By the definition of scope we mean a definite decision as to just what phases of the subject matter the bibliography is to include, what is to be excluded, and the period of time to be covered by the list. When a bibliography is to be undertaken, a conference of the members of the staff who are concerned is called and the subject is thoroughly discussed. If the subject is a highly technical one a conference is arranged with one of the experts in the field. We present our plans to him, outline the scope of the bibliography as planned, and ask for advice on doubtful points. If a conference is not possible we submit to him a written statement of our plans for his advice and approval. Such advice is usually freely given and much help is obtained from it. In the case of the Land utilization bibliography, which is not yet finished, a special committee of experts has been appointed by the chief of the Division of Land Economics to advise with the compilers in their work. Many of our specialists, although they are very busy men, have advised with us during the progress of our bibliographies when doubtful points have arisen. As the bibliography grows, the tendency is to broaden its scope as its many ramifications open up. This is to be expected, but the more carefully the scope is defined in the beginning, the more easily will this difficulty be avoided.

It is understood in our library that, before beginning any comprehensive bibliography, the compiler will read as widely as time and facilities permit on the subject chosen. Time thus spent is a good investment which will yield rich returns, make each step of the way surer, and prevent much wasted time. A clear conception of what we are undertaking to do is necessary and can be obtained only through a definite knowledge of the subject and an understanding of the basic terms used. For as Abraham Lincoln once said, "If we could first know where we are and whither we are tending we would better know what to do and how to do it." Before beginning the bibliography on land utilization the compilers had the advice of the chief of our Division of Land Economics on what to read in preparation for the work. Such advice is invaluable and should be sought whenever available.

Having decided upon the scope of the Bibliography on Land Settlement and having made as good a preparation as possible in getting acquainted with the subject, our next step was to decide on the sources to be consulted for references to include. In addition to the card catalogues of the libraries of the United States Department of Agriculture and the Bureau of Agricultural Economics, we checked Agricultural Economics Literature and its predecessor the Library Supplement, the Agricultural Index, the Experiment Station Record, the International Index to Periodical Literature, Public Affairs Information Service Bulletin, Social Science Abstracts, the Industrial Arts Index and the Reader's Guide to Periodical Literature. We do not always check the two last-named indexes for an agricultural economics bibliography, but because of the general interest in the Government's subsistence homestead scheme and other forms of land settlement we did so in this case. We also checked every available list and bibliography which seemed pertinent, especially bibliographical footnotes and bibliographies appended to books. Usually in our checking we examine the card catalogues of any other libraries in the city which may contain pertinent material, particularly the catalogue of the

Library of Congress. Because of the lack of time - actual compiling of the Bibliography on Land Settlement had to be finished by the first of February 1934 in order that it might be paid for out of the appropriations for that fiscal year - only the card catalogues of our library and of the main library of the Department were checked. This we consider a definite weakness in the bibliography, for although many publications in the Library of Congress were consulted and references to them included, the bibliography would have been much more complete if that catalogue had been fully checked.

There is some difference of opinion among the members of our staff as to the best order to follow in checking the various sources and as to whether, or not, all sources should be checked before examining the references collected. Personally I prefer to check and examine somewhat simultaneously for a time until I can be sure that I will not have to enlarge the scope of my bibliography. This is to avoid having to recheck for subjects omitted in the original checking. Sometimes considerable time elapses before the checking of sources is completed, so I prefer to check the card catalogue last in order to be as up-to-date as possible.

Any discussion of methodology should include a discussion of the form of entry and the arrangement of the bibliography. At the time the Bibliography on Land Settlement was compiled the form used by the United States Department of Agriculture for printed bibliographies differed somewhat from that used for the mimeographed ones which are not edited in the main editorial office of the Department. The form finally decided upon was in some cases a compromise which did not wholly satisfy any of us, but after all, the form used makes very little difference provided it gives complete information and is uniform. Author, title, edition, paging, place of publication, publisher, and date, in the order named are essential for a book entry. Illustrative material, such as maps, charts, etc., might well be mentioned after the paging. Such information, however, may sometimes be more appropriately included in the annotation. Entries for pamphlet and periodical material should likewise be as complete as possible. The colon form of entry was used for periodical articles. By colon form I mean the use of the colon to separate the volume number from the paging in a periodical citation - as South. Econ. Jour. 2 : 1-10. 1936. Those of our staff who do bibliographical work prefer the full citation - South. Econ. Jour. 2(3):1-10. January 1936 - giving volume and number, paging, and full date, but we were not able to convince the editorial office of the Department that such full citation was necessary. So in the Bibliography on Land Settlement the month date, and the number of the periodical were omitted unless each number of the periodical was paged separately.

The abbreviations used are those listed in United States Department of Agriculture Bulletin 1330, Abbreviations Employed in Experiment Station Record for Titles to Periodicals. Because this bulletin was published in 1925 it does not contain abbreviations for many of the newer periodicals. It is also not available except in libraries as it is out of print. The bulletin is being revised, however, and when it is available will be a most useful guide to abbreviations. Another guide which we are expected to use is the Style Manual of the United States Government Printing Office. A good policy to

pursue is to use only abbreviations which are clear and easily recognized, and avoid all abbreviations for foreign items.

The question of arrangement may be decided upon in various ways, although a classified arrangement is usually selected for bibliographies of this type. Sometimes a plan is chosen when plans are being made for the bibliography, but more often during the handling of the material a plan of arrangement suggests itself. Facility in handling items when work is in progress is usually obtained through keeping the examined, the unexamined, and the discarded references each in alphabetical order, and then classifying the selected items when the work is finished. However, as far as the finished items are concerned this arrangement is not always satisfactory, as material is likely to be asked for while the bibliography is still in progress and requests usually come for references on a particular subject rather than for a publication by a particular writer. A classified arrangement also brings up the question of repetition of items under more than one subject. Such repetition is undoubtedly useful but it also adds to the length of the bibliography and sometimes defeats its own purpose if too minute a classification is used. In the case of the Bibliography on Land Settlement, items were classified under one subject and other subjects were brought out in the index. The compiler must learn to expect difficulties in classifying references in a classified bibliography as well as criticism from the user when it is finished.

One of the most important steps in the compiling of any bibliography is the examination and annotation of the items chosen. Actual examination of publications is essential in all but the most superficial of lists; in comprehensive, annotated bibliographies it is absolutely necessary. The annotations, notes, or abstracts, need not be long, but they should adequately describe the contents of the publication and indicate the locality and the period of time covered by the publication described. Critical, or editorial, comments unless quoted are not permitted in a bibliography issued by the United States Department of Agriculture. Special parts of the publication which are of particular interest to the bibliography should be brought out, such as chapters, or even paragraphs if they are important. If partial contents of a book are noted, definite references to chapter and page should be made. Important or especially pertinent charts, maps, statistical tables, etc., should be noted. Generally speaking, a note for a publication in a foreign language should be fuller than for one in the English language, provided the compiler has the knowledge of languages that will enable her to make such abstracts. In references to both foreign and English language publications, it is often only through the annotation that the user of a bibliography is enabled to find quickly what he wants on the particular aspect of the subject in which he may be interested, or to discover that the book with the attractive title contains nothing of interest for him. Unless he is acquainted with the publications, he will be grateful for annotations telling him that a book entitled Nazareth or Chaos was written from the standpoint of the Catholic Land Association; that the hearings held by the Senate Committee on Agriculture and Forestry on the United Communities contain a good account of the Llano Cooperative Colony in Louisiana; and that a book entitled Facts and Opinions, or Dangers that Beset Us, contains a chapter by

a Captain Cornelius Gardener in which is described Mayor Pingree's Potato Patch Scheme for the relief of the unemployed through the cultivation of vacant city lots. Well-worded annotations bring out the essential features of the publication cited which may be made quickly available through the index, thus avoiding the necessity of reading numerous references to obtain all that the bibliography contains on some particular phase of the subject.

This brings us to the question of the index, which for a classified bibliography should be an index of authors and subjects in as detailed a form as is possible, with numerous cross references. References are more satisfactorily indexed by item numbers than by page numbers. The use of item numbers obviates the necessity of searching through a whole page of references to locate a specific item. The making of an index is hard work, involving much time and drudgery, but a good index means less work and greater usefulness to the user of the bibliography, who may be not only the student and the reference librarian, but even the compiler herself.

A compilation prepared by three different people involves special planning for the division of the work. In the case of the Bibliography on Land Settlement the checking was divided among the three compilers. Generally speaking, the second-named compiler was held responsible for the foreign section of the bibliography and the other two for the section on the United States. However, the finished product is an entirely joint product; no one section being the handiwork of any one person. All three contributed to each part of it. The index naturally presented the greatest problem in the division of the work. It was finally accomplished by dividing the actual indexing between the two first-named compilers; the first, indexing the United States section and the second, the foreign section. Frequent conferences were held in order that there might be uniformity in the indexing; and the final coordination was done by the first-named compiler, with the advice of the other two. The editing of both the index and the text of the bibliography was the work of the third-named compiler.

The remaining parts of the bibliography may be more briefly described in the order in which they appear. The title page should raise no especial difficulties, provided the title chosen is adequate and provided it contains what a cataloguer would expect to find there - the title of the bibliography, the compilers' names, the names of the library and the librarian under whose direction it was issued, the name of the issuing office, the series note, and the place and date of publication. A table of contents is also an essential feature of a classified bibliography.

The list of sources consulted in compiling the bibliography should contain not only the titles of the publications or indexes consulted, but the dates of the indexes examined as well. This feature is invaluable when it is necessary to bring a bibliography up-to-date and also to vindicate the compiler when an author, whose book has been omitted because it was published after the checking was finished, desires to know why his book was not included.

The introduction should describe the scope and content of the bibliography, telling what phases of the subject have been included, what have been omitted, and the years covered by the compilation, setting forth clearly what the compilers have undertaken to do, and including a statement as to the arrangement of the bibliography and how it may best be used. This statement, if carefully read, should greatly facilitate the use of the bibliography and should protect the compilers from criticisms for not having done what they did not undertake.

A word should be said about proof-reading which in the case of our printed bibliographies means the reading back not only of the typewritten manuscript, but also the galley and the page proof. At least one of the readers should be the compiler who is thoroughly acquainted with the manuscript. Careful proofreading and careful verification of every reference listed and every item in the index will aid accuracy and justify confidence in the finished product.

To sum up - the essential points in the methodology used in compiling the Bibliography on Land Settlement, or any comprehensive bibliography, in the library of the Bureau of Agricultural Economics are definition of the scope made with the advice and the cooperation of an expert in the subject, preparation of the compiler as to knowledge of the subject matter, decisions as to the sources to be consulted and as to form and arrangement, examination and annotation of items, and the making of the index. To methodology should be added patience, imagination, perseverance and accuracy on the part of the compiler.

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- BRACKETT, E. E. Pump irrigation for orchards. Nebr. State Bd. Agr. Ann. Rpt. 1935: 534-536. [1935?]
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New Jersey

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- DRAIN, B. D. The Jersey Redskin potato in Tennessee. Tenn. State Hort. Soc. Proc. 29-30(1933,1935): 24-26. [1935]
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Texas

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- YARNELL, S. H. Chromosome behavior in blackberry-raspberry hybrids. Jour. Agr. Research [U. S.] 52: 385-396. March 1, 1936.

Utah

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THRELKELD, W. L., and DOWNING, T. O. A report on the experimental infections of Ovis aries with the infective larvae of Ostertagia circumcincta. Jour. Parasitol. 22: 187-201. April 1936.

ZIMMERLEY, H. H. Sweet potato production. Veg. Growers Assoc. Amer. Ann. Rpt. 1935: 188-201. [1936?]

Washington

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GRUNDER, M. S. Mangels respond to high potash. Better Crops with Plant Food 20: 17-18, 35-36. May 1936.

VANDECAVEYE, S. C., and KATZNELSON, H. Bacteriophage as related to the root nodule bacteria of alfalfa. Jour. Bact. 31: 465-477. May 1936.

Wisconsin

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ELVEHJEM, C. A. (With C. J. Koehn jr., and J. J. OLESON, Univ. Wis.) An essential dietary factor found in yeast and liver extract distinct from vitamins B₁, B₂, B₄, and flavins. Jour. Biol. Chem. 114: xxxi-xxxii. May 1936. [Abstract of paper?]

HERRICK, C. A. (With S. X. CROSS, U. S. Dept. Agr.) The development of natural and artificial resistance of young rats to the pathogenic effects of the parasite Trypanosoma lewisi. Jour. Parasitol. 22: 126-129. April 1936.

HERRICK, C. A. Organ specificity of the parasite Eimeria tenella. Jour. Parasitol. 22: 226-227. April 1936. (Research note)

IRWIN, M. R., and COLE, L. J. Immunogenetic studies of species and of species hybrids in doves, and the separation of species-specific substances in the backcross. Jour. Expt. Zool. 73: 85-108. April 5, 1936.

LEASE, J. G., KELLY, E., and PARSONS, H. T. Effects on three types of animals of injecting the new factor curative of pellagra-like symptoms due to egg white. May 1936. [Abstract of paper?] (J. G. Lease, Univ. Wis.)

LILLY, J. H. Selenium in dormant sprays. Jour. Econ. Ent. 29: 466-467. April 1936. (Scientific note)

McCOY, E. (With L. S. McCLUNG, Univ. Wis.) Studies on anaerobic bacteria. IX. Antigenic relations of Clostridium bifermentans and Clostridium centrosporogenes. Jour. Bact. 31: 557-568. May 1936.

ARTICLES BY STATE AGRICULTURAL EXPERIMENT STATION WORKERS

Wisconsin
(continued)

- MORELL, S., and LINK, K. P. Note on preparation of sinigrin. Jour. Biol. Chem. 114: 123-124. May 1936. (S. Morell, Univ. Wis.)
- STEENBOCK, H. (With M. H. IRWIN and J. WEBER, Univ. Wis.) The comparative rate of absorption of various fats. Jour. Biol. Chem. 114: c-ci. May 1936. [Abstract of paper?]
- STEENBOCK, H., SEMB, J. (With E. C. VAN DONK, Univ. Wis.) Sexual differentiation in the storage of iron by the rat. Jour. Biol. Chem. 114: ci. May 1936. [Abstract of paper?]
- WOOLLEY, D. W., and PETERSON, W. H. The chemistry of mold tissue. XI. Isolation of leucine and isoleucine from *Aspergillus sydowi*. Jour. Biol. Chem. 114: 85-90. May 1936. (D. W. Woolley, Univ. Wis.)

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MISCELLANY

An Index to the Service and Regulatory Announcements of the Bureau of Agricultural Economics is now available in printed form. The supply is limited but copies will be sent on request to anyone who has a complete set of these Service and Regulatory Announcements already on file. Requests should be addressed to the Division of Economic Information, Bureau of Agricultural Economics, U. S. Department of Agriculture, Washington, D. C.

The Society for the Bibliography of Natural History has been established as a scientific society instituted for the study of bibliography of all branches of zoology, botany, and geology. The Society proposes:

(1) To publish a journal containing collected lists of bibliographical papers already published on various branches of natural history; original contributions in regard to the dates of publication of zoological, geological and botanical works; particulars relating to the disposal of the libraries and collections of deceased naturalists; and papers on bibliographical subjects. It is proposed also, from time to time, to publish in the journal, facsimile reproductions of rare or unique works or parts of works on natural history. Copies of this journal will be issued free to members of the Society. It is hoped to publish from time to time original works on special aspects of the bibliography of natural history.

(2) To compile and to maintain a card index containing references to all published papers on bibliographical subjects, which will be available for consultation by members of the Society on application to the Secretary. Persons of all nationalities and of either sex who are interested in the bibliography of natural history are eligible for membership. The subscription has been fixed at the rate of one guinea per annum. The Acting Honorary Secretary is Francis J. Griffin, 41 Queen's Gate, S. W. 7, London, England.

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OREGON STATE COLLEGE GRADUATE THESES

In the program of the Sixty-seventh Annual Commencement Graduation Exercises of the Oregon State College, there is given a list of the graduate theses. Among those presented for the degree of Master of Science are the following bearing on agriculture, forestry, entomology, and nutrition:

- Ballantyne, V. H. State egg laws.
- Bertram, M. E. The losses of calcium in cooking kale.
- Edwards, W. D. Biology of *Cnephasia longana* Haworth, an insect pest of several important crops in Oregon.
- Feiss, S. H. The application of stand improvement measures in Douglas fir and Ponderosa pine types of the Pacific coast.
- Finnell, H. E. Relation of certain physical characters of Reed canary grass seed to germination.
- Fryer, L. N. Relation of the productivity of certain soil areas in the Willamette Valley to the internal organization of farms in the region.
- Gjullin, C. M. The female genitalia of the *Aedes* mosquitoes of the Pacific Coast states.
- Goff, A. M. Depreciation of different classes of farm machinery on different types of farms in Oregon.
- Gorton, W. W. An analysis of methods and procedure in determining pasture costs.
- Jenkins, P. M. Losses in Vitamin B value of cooked peas held at steam table temperature.
- Larson, N. P. The Hop aphid, *Phorodon humuli* (Schrank), and its control in the Willamette Valley.
- Nelson, M. S. L. An analysis of the subject matter used in teaching the management of time and of money in college home management courses.
- Ott, W. H. Criteria of Vitamin D deficiency in mature chickens.
- Pentzer, D. J. The preservative action of Ionic silver on fruit juices.
- Reed, E. E. A statistical study of the New York auction fruit market.
- Reynolds, J. N. The canning of American Cheddar cheese.
- Schroeder, G. H. The milling practices and silvicultural factors affecting forestry in Benton County, Oregon.
- Schuh, J. A contribution to the knowledge of the Odonata of Oregon.
- Spike, F. M. The Vitamin G(B_2) content of frozen strawberries.
- Thomas, G. M. The milling practices and silvicultural factors affecting forestry in Benton County, Oregon.
- Tomscheck, W. H. Soil nitrogen transformation as affected by moisture.
- Webb, I. N. The Vitamin C value of commercially canned tomato juice.

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LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING MAY 1936*

Alabama

IVEY, J. E. Homemade brick brooders. (Ala. Poly. Inst. Ext. Circ. 150.)
Auburn, 1936.

Arizona

BAKER, H. R. Arizona 4-H club song book. (Ariz. Agr. Col. Ext. Circ. 87.)
Tucson, 1935.
ROSS, P. H. Twenty-first annual report for the fiscal year ended June 30,
1935, including a report on project work to November 30, 1935. (Ariz.
Agr. Col. Ext. Proj. Circ. 16.) Tucson, 1936.

Arkansas

HECKMAN, J. H., and WHITE, E. D. The 1936 agricultural outlook for Arkansas.
(Ark. Agr. Col. Ext. Circ. 354.) 524 Post Office Bldg., Little Rock, 1935.
GRAY, D. T. Annual report of extension service, fiscal year July 1, 1934, to
June 30, 1935 with report of field activities December 1, 1934, to November
30, 1935. (Ark. Agr. Col. Ext. Circ. 355.) 524 Post Office Bldg.,
Little Rock, 1936.
AMSTEIN, W. G. 4-H club manual in gardening. (Ark. Agr. Col. Ext. Circ.
359.) 524 Post Office Bldg., Little Rock, 1936.

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PRUDENT, I. Meals that appeal. (W. Va. Agr. Col. Ext. Good Living Ser. IV, Lesson no. 6, Adventures in Everyday Living.) Morgantown [1936]

Wyoming

VASS, A. F., and PEARSON, H. Profitable systems of farm and ranch organizations for certain areas in Wyoming. (Wyo. Agr. Col. Ext. Circ. 60.) Laramie, 1935.

Wyoming agricultural situation for 1936. (Wyo. Agr. Col. Ext. Circ. 61.) Laramie, 1936.

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of the U. S. Department of Agriculture
received during May, 1936, exclusive of Bibliographies*
and current issues of serials.**

Office of the Secretary

Farm imports: our favorite personal devil. Remarks by Henry A. Wallace over the National farm and home hour, NBC, May 12, 1936. 4 p.

Making the most of the home market. Address of Secretary Wallace, before meeting of farmers at University of Nebraska, Lincoln, Nebraska, May 4, 1936, 24 p.

Agricultural Adjustment Administration

Cottonseed prices in the United States, 1934-35. By A.M. Dickson. 1936. 109 p. (Issued by Division of marketing and marketing agreements. Cotton marketing section)

Planning for 1937 and subsequent years. 1936. 14 p.

Bureau of Agricultural Economics

Europe as a market for American pecans. 1936. 25 p. (F.S.-66) (Issued by Foreign agricultural service)

Farmer bankruptcies decline further in 1935, but are exceeded in number by debt compositions and extensions. 1936. 5 p.

The position of American cotton and the American cotton producer. By Maurice R. Cooper. 1936. 13 p. (Issued by Division of statistical and historical research. Address, ninth annual marketing school and annual meeting of the Arkansas council for agriculture, Little Rock, Arkansas, March 4, 1936)

Revised list of approximate or average weights of various commodities. 1936. 4 p. (Issued by Division of statistical and historical research)

Bureau of Agricultural Engineering

Subsidence of peat soils in Florida. By B.S. Clayton. Prepared under the direction of Lewis A. Jones. 1936. 15 p. (Issued by Division of drainage)

Bureau of Biological Survey

Local control of magpies. By E.R. Kalbach. 1936. 8 p. (Wildlife research and management leaflet BS-51) (Issued by Division of wildlife research)

Bureau of Chemistry and Soils

Soil genesis in relation to the soil erosion problem; a lecture given at the University of Wisconsin, April 8, 1936, by Charles E. Kellogg. 1936. 12 p.

* Bibliographies included in general list of bibliographies on page 298.

**For a list of the principal series issued regularly, see v.9, no.10, p.354.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
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Bureau of Dairy Industry

The cow tester's manual. By J.C. McDowell and J.F. Kendrick. 1936. 17 p. (BDIM-699) (Issued by Division of dairy herd improvement investigations)

Information on dairy herd-improvement associations. By J.F. Kendrick. 1936. 10 p. (BDIM-692) (Issued by Division of dairy herd improvement investigations)

Bureau of Entomology and Plant Quarantine

A Berlese funnel for collecting smaller soil animals. By L.D. Christenson. 1936. 3 p. (ET-81) (Issued by Division of cotton insect investigations)

A cage for rearing bark- and wood-boring insects under field conditions. By W.J. Buckhorn. 1936. 3 p. (ET-79) (Issued by Division of forest insect investigations)

The control of flea beetles attacking tobacco in the southern tobacco-producing regions. By J.U. Gilmore and F.S. Chamberlin. 1936. 6 p. (E-373) (Issued by Division of truck crop and garden insect investigations)

An inexpensive constant-temperature oven. By R.A. Fulton. 1936. 2 p. (ET-80) (Issued by Division of truck crop and garden insect investigations)

A method of preparing insect specimens for Riker mounts. By George H. Kaloostian and Heber C. Honohoe. 1936. 2 p. (ET-82) (Issued by Division of fruit insect investigations)

Extension Service

An appraisal of the programs in recreation. By C.B. Smith. 1936. 6 p. (Extension service circular 240) (Presented at Regional extension conference, Eastern states, Boston, Mass., Feb. 19 to 21, 1936)

The cultural aspects of 4-H club work. By Gertrude L. Warren. 1936. 5 p. (Extension service circular 241) (Prepared at the request of Dr. C.J. Galpin as part of "A review of the country life movement in the United States", published in Rural America, Feb. 1936, for distribution in foreign countries)

Economics handbook for use of state extension specialists. Hogs. Assembled by Agricultural economics section, Division of cooperative extension, in cooperation with Bureau of agricultural economics. 1936. 25 p.

Sociological aspects of the new land program. By Jacob G. Lipman. 1936. 4 p. (Presented at Northeastern states extension conference, held in Boston, Mass., Feb. 19 to 21, 1936.)

What rural women in the United States and abroad are doing. By Grace E. Frysinger. 1936. 4 p. (Issued by Division of cooperative extension. A radio talk given on the program of the General federation of women's clubs, from station WMAL, Washington, Mar. 6, 1936)

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Grain Futures Administration

Impressions concerning country trading in grain futures with especial reference to wheat futures. By H.S. Irwin. 1936. 29 p.

Seasonal tendencies in wheat futures prices. By H.S. Irwin. 1936. 27 p.

Bureau of Plant Industry

The bindweed research project. 1936. 14 p. (Issued by Division of cereal crops and diseases in cooperation with State experiment stations)

An early variety of Korean lespedeza. By A.J. Pieters. 1936. 3 p. (Issued by Division of forage crops and diseases)

Salsify or vegetable oyster. By W.R. Beattie. 1936. 2 p. (Issued by Division of fruit and vegetable crops and diseases.)

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A CORRECTION REGARDING FORESTRY CURRENT LITERATURE

In the list of "Current and Multigraphed Periodicals" published in the Department, which appeared in Agricultural Library Notes for Oct. 1934, the entry for Forestry Current Literature gave Nov. 1909 as the first issue, whereas the series was begun in Feb. 1904 in typewritten form. The various forms in which it has been issued are given below and a list of the title changes. It was discontinued temporarily with the Sept.-Oct. 1932 issue on account of the death of Miss H. E. Stockbridge, Librarian, Forest Service. It resumed publication in Jan. 1934 at which time two numbers were issued, one covering the period Nov. 1932-June 1933, and the second the period July-Dec. 1933. For 1934 a new series was begun, with vol. 1, no. 1, covering Jan.-Feb. 1934.

Form of Publication

February 1904-March 1905, typewritten.
April 1905-March 1907, mimeographed.
April 1907-October 1907, printed in Forest Service, Field programme.
November 1907-April 1910, mimeographed.
May 1910-July 1919, printed in American Forestry.
August 1919-February 1922, mimeographed.
March 1922-March 1927, in Journal of Forestry.
April 1927-date, mimeographed.

Title changes

February 1904-November 1905, have title: New Books Received.
December 1905, has title: New Books.
January 1906-March 1907: Current Literature.
April 1907-May 1907: Accessions to the Library.
June 1907-November 1907: New Forest Literature.
December 1907-April 1910: Current Literature.
May 1910-June 1910: Monthly List.
July 1910-December 1927: Current Literature.
January 1928-date: Forestry Current Literature.

OLON ROBINSON, PIONEER AND AGRICULTURIST
SELECTED WRITINGS - EDITED BY HERBERT A. KELLAR *

Reviewed by Everett E. Edwards, Agricultural Economist
U. S. Bureau of Agricultural Economics

Solon Robinson was a colorful and exceedingly interesting individual. A direct descendant of the famous pastor of the Pilgrims at Leyden, he was left an orphan at the age of ten. After serving as a carpenter's apprentice and a Yankee peddler in rural Connecticut, he migrated to Ohio and later to Indiana where he wrote for the local press, promoted town sites, ran general stores, organized a squatter's union, acted as county clerk, justice of the peace, register of claims, and postmaster, and otherwise dabbled in politics.

Robinson, along with Henry L. Ellsworth and others, worked for the formation of a national agricultural society which they hoped would gain control of the Smithsonian fund and develop a national agricultural school and journal. The ultimate result of these efforts was the United States Agricultural Society which was a vital factor in the creation of the U. S. Department of Agriculture.

In 1852, Robinson published The Flow in New York City, and the following year he became the agricultural editor of the New York Tribune. His work in the latter connection was largely responsible for the widespread circulation of the weekly edition of the Tribune and its subsequent national influence under the guidance of Horace Greeley. Having suffered nearly all his life with tubercular tendencies, Robinson was forced to retire to Florida in 1868 where he continued to write novels, short stories, and poetry, and to do editorial work. He died in 1880.

As early as 1837 he began to contribute articles on various aspects of the frontier, including its agricultural possibilities and needs, to the Albany Cultivator and other agricultural periodicals. These essays, written in a simple, homely, and humorous style, reflected his forceful personality and won him a large following. Later he began a series of tours à la Arthur Young and reported his observations, covering practically every settled State in the Union, to the Cultivator, the Prairie Farmer, and the American Agriculturist, from which they were reprinted in the Southern Cultivator and other similar publications.

Herein lies the significance of this volume. Mr. Kellar has selected the more valuable and representative agricultural writings and speeches of Solon Robinson, and the result is a veritable treasure chest of data on American agriculture in the 1840's and 1850's. The editing is everything that even we who are critical demand, and the Foreword by Dr. Christopher B. Coleman, the Preface, the "Contents-Calendar", the illustrations, and the thirty-nine page biographical sketch that serves as the Introduction are models that other historians may well emulate. In closing, let me repeat - together with the second volume that is soon to be issued, Mr. Kellar has provided us with information not only on a colorful and influential personality but also a vast storehouse of information on American agriculture in the middle decades of the nineteenth century.

* Published by the Indiana Historical Bureau, Indianapolis, Ind., 1936.

THE TRANSLATION OF SCIENTIFIC AND TECHNICAL LITERATURE

By Dr. Harry B. Humphrey,
Principal Pathologist, Bureau of Plant Industry,
United States Department of Agriculture

With reference to the written word, to translate is to change into another language, retaining the sense; to interpret, to explain; to faithfully render out of one tongue into another the language of fact. Someone has fitly said: "He who translates quite literally is a liar, while he who adds anything is a blasphemer". Translation, therefore, may be defined as the process of converting from one language into another without loss, impairment, or obscurity of meaning. In other words, to translate accurately, faithfully, is to interpret correctly and to make wholly intelligible to the reader the whole sense and substance as expressed by the author of the original text.

The growing interest and activity incident to evolving a large-scale translation exchange service under the direction of the Library of the U. S. Department of Agriculture emphasize the importance of more than ordinary skill and scholarship to the translation of scientific and technical literature. The value of such translation service as we have in mind will depend greatly upon whether its stock-in-trade consists in alleged translations or in Simon-pure renditions and interpretations of the whole sense and spirit of the original texts.

Those of us who have had experience in translating realize the difficulties inherent in idioms. To translate the expression courir à toutes jambes literally, word for word, might be an alleged translation, but not the correct one. "To run with all legs" is not "to run as fast as one's legs will carry one". The same applies also to da sitzt der Knoten. Literally rendered, it becomes "there sits the knot"; correctly translated, it tells you "there's the rub". And, again, when the Italian desire votare il sacco, he does not mean "to empty the sack", but he desires "to speak his mind openly and fully".

Many illustrations of the kind could be cited, but these will serve to show the importance of the sense as well as the word.

He who translates scientific papers from one language to another would do well to know something - and the more, the better - of scientific terminology. Failing this, he should, before finally delivering his translation, seek the cooperation of a specialist informed in the terminology pertaining to the subject translated.

Two or three illustrations will serve to show the value, indeed the necessity, of such cooperation. In a certain translation of a German paper on the subject of xenia in maize, the noun Vererbungslehre (theory of inheritance) was rendered "School of genetics".

THE TRANSLATION OF SCIENTIFIC AND TECHNICAL LITERATURE
(continued)


In another instance, the title of a paper, Das Zweigsterben der Ulmen, was set down as "The withering branches of the elm". An informed specialist in forest pathology corrected it to read: "The twig wilt of the elm".

In yet another instance, La maladie de l'Orme est donc, une thylose, une production anormale de thyllles dans les vaisseaux de l'annee, alors que dans les Ormes sains, les thyllles ne s'observent que dans les couches annuelles ayant au moins un an d'âge was so rendered by the translator as to read: "The elm disease is, therefore, a thylosis, an abnormal outcropping of thyloses in the yearly ducts, while in the healthy elms thylosis is observed in the year or more old wood". In the hands of a specialist in forest pathology who, at the same time, knew his French, this bit of French text became: "The elm disease is, therefore, a thylosis, an abnormal production of thyloses in the vessels of the annual rings, while in the healthy elms, thyloses are observed only in annual rings at least one year old".


Other like examples of erroneous translation are at hand but the foregoing cases will suffice to convince the reader of the necessity of checking and rechecking for errors both great and small.

What the research or other specialist demands is a translation that is something more than a mere approximation to the truth as expressed in the original text. What he must have, and by every right is entitled to, is an absolutely faithful rendition of the entire sense of the original, and a translation should not be made available as such until it has been proved capable of satisfying that requirement. Cooperation between translators and specialists will accomplish much in the direction of such perfection, and, if supplemented by able editing, a translation exchange service eventually can and will acquire an enviable reputation. It also will be in a position to contribute most importantly to scientific research.

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AGRICULTURAL LIBRARY NOTES



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WASHINGTON
D. C.

AGRICULTURAL LIBRARY NOTES

Vol. 11

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No. 7

PERIODICAL DISPLAY SHELVES Periodical Reading Room (Room 1416)

Since current periodicals contain the most up-to-date information their accessibility is a matter of special importance in a research institution such as the Department of Agriculture. How to bring the contents of the new issues to the attention of the users of the Library with promptness and regularity has been one of the difficult problems of the Department Library. In the past the need has been met principally in two ways, (1) by the regular circulation of periodicals to bureaus, offices and individuals, and (2) by the issuance of special current literature lists prepared in the bureau libraries and bureau offices, such as Agricultural Economics Literature, Agricultural Engineering Current Literature, Cotton Literature, Entomology Current Literature, Forestry Current Literature, Highways Current Literature, Plant Science Literature, and Wild Life Review. Certain of the branch libraries in the bureaus have also maintained reading tables for the display of a limited number of periodicals of special interest.

The various methods which have been used for making known the contents of current periodicals have only partially met the need. The growth of the Department, the limited appropriation of the Library, and the overlapping of the interests of the bureaus have increased the difficulties in the regular circulation of the periodicals. But the greatest difficulty has been due to the failure of Department workers to return the periodicals promptly and the consequent length of time consumed in the circulation of the numbers to the various bureaus and individuals. Sometimes periodicals are six months old before the regular circulation is finished. For some time there has seemed, therefore, to be a need for one central place where it will be possible to see practically all of the new issues as received. The new quarters of the Library, its central location, and the bringing together of a large number of offices in the South Building, now make it feasible for the first time to provide this additional service.

The new plan for displaying the current periodicals which has been inaugurated this month is similar to the plan which has been followed by the Library for a number of years in displaying the new books and bulletins on the "New Book Shelves" in the Reference Room. In the Periodical Reading Room (Room 1416) the new issues of periodicals will be kept for a week. Display cases have been installed for displaying the periodicals. There are six of these display cases, one for each of the working days of the week. On the case for Monday are displayed the issues received on that day, on the case for Tuesday are displayed the issues received on that day, and so on for the other days of the week. A regular examination therefore of these display cases once a week on the same day of the week (morning or afternoon) will make it possible to see practically all of the periodicals received by the Library with the exception of certain statistical and economic journals which are sent direct to the Bureau of Agricultural Economics Library. The latter are available there in Room 3439 on the third floor of Wing 4, just above the main Library.

PERIODICAL DISPLAY SHELVES (continued)

The periodicals on the display cases are arranged by the Library call numbers. This plan was necessary because of the limited space for the display of the issues and in order to locate the periodicals as quickly as possible. It also serves the purpose of bringing together the journals on the same subject.

It is hoped that this attempt to make the current periodical literature more generally available to the Department workers will be successful. The plan is definitely an experiment. It will be carried on for a few months at least until it is possible to see whether or not the use made of the service is sufficient to justify its continuance. Expressions of opinion from the users of the Library, as well as suggestions, will be welcomed.

NEW BOOK SHELVES

and

Display Case for New Bulletin and Pamphlet Material

A one-week exhibit of recent accessions to the Library, known as the "New Book Shelves" is maintained in the Reference Room of the main Library (Room 1505). A regular examination of the "New Book Shelves" and of the display cases for bulletin and pamphlet material, if made on the same day of each week, in the afternoon, will make it possible to keep informed regarding the new accessions. Each book and bulletin is provided with a "Day Slip" showing the day of the week on which it was placed on display. Any Department worker may put his or her name on this slip which insures the book's being sent to that person in due time. Those who do this, however, are asked to exercise discrimination by refraining from asking for books of only general interest to them, but pertaining directly to the work of one of the bureaus which may need the book for immediate use. In such cases it would be well to explain to the reference librarian that the book is desired when it can be spared. The circulation usually follows the order of the names appearing on the "Day Slip".

Bulletins, circulars, leaflets and posters are placed on the display cases. A list of some of the classes of material which may regularly be found on the display cases follows:

- U. S. Department of Agriculture publications
- Extension publications of the State agricultural colleges
- State agricultural experiment station publications

Bulletin Board

One of the display cases is used as a bulletin board for the display of programs and announcements. These include programs of meetings, announcements of lectures and courses of study, announcements of Civil Service examinations, the daily weather map, etc. The cooperation of Department workers is earnestly requested in supplying announcements of interest. Secretaries of local and other societies would also confer a favor by sending programs of their meetings for posting on the bulletin board.

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Agriculture, Horticulture

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- NATIONAL CANNERS ASSOCIATION, BUREAU OF RAW PRODUCTS RESEARCH. Agricultural research relating to canning crops; review of work in progress and publications issued since 1932. Washington, 1936.
- NEBRASKA CROP GROWERS' ASSOCIATION. Rules and regulations for the certification of small grains, alfalfa, sorghum, corn, and recommended crop varieties for Nebraska. Lincoln, 1935.
- TRINIDAD. DEPT. OF AGRICULTURE. Citrus experiments, St. Augustine experimental station, by R. O. Williams and E. J. Gregory. [Port-of-Spain? 1935?]

Chemistry, Technical

- CONGRÈS INTERNATIONAL TECHNIQUE ET CHIMIQUE DES INDUSTRIES AGRICOLES. 4th, Bruxelles, 1935. [Report] v. 2. Bruxelles, Ministère de l'agriculture, Ministère des affaires économiques, 1935.

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- CHASE, S. The story of Toad Lane. New York City, Consumers' cooperative services, 1935.
- COWDEN, H. A. A trip to cooperative Europe. North Kansas City, Consumers cooperative association [1934?]
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- ARGENTINE REPUBLIC. DIRECCIÓN DE CONTRALOR DE LA PRODUCCIÓN FRUTICOLA, Cosecha y empaque de frutas. Buenos Aires, Ministerio de agricultura, 1936.
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- LEONIAN, L. H. Effect of auxins from some green algae upon *Phytophthora cactorum*. Bot. Gaz. 97: 854-859. June 1936.
- MANUS, L. J., and THURSTON, L. M. Study of the causes of bitter flavor in cream. Jour. Dairy Sci. 19: 484-485. July 1936. (Abstract of paper)
- VAN LANDINGHAM, A. H., HENDERSON, H. O., and BOWLING, G. A. Effect of phosphorus intake on the calcium and inorganic phosphorus content of whole blood of dairy heifers during the periods of gestation and first lactation. Jour. Dairy Sci. 19: 443. July 1936. (Abstract)

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- BYERS, E. L., and PRICE, W. V. The influence of salt on the composition and quality of brick cheese. Jour. Dairy Sci. 19: 501-502. July 1936. (Abstract of paper) (E. L. Byers, Univ. Wis.)
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- LATHROP, A. W., and BOHSTEDT, G. The feed value of oat mill feed as a hay substitute for dairy cows. Jour. Dairy Sci. 19: 463-464. July 1936. (Abstract of paper)
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Delaware

- McCUE, C. A. Annual report of the Extension Service in agriculture and home economics. (Del. Univ. Agr. Ext. Bul. 84.) Newark, 1936.

Florida

- NEWELL, W. 1935 report cooperative extension work in agriculture and home economics. Report of general activities for 1935 with financial statement for the fiscal year ending June 30, 1935. (Fla. Univ. Agr. Ext. [unnumbered]) Gainesville, [1936]

Idaho

- NORDBY, J. E., and GILDOW, E. M. Swine husbandry in Idaho. (Idaho Univ. Agr. Col. Ext. Bul. 101.) Moscow, 1936.
FRENCH, P. J. Suggestions in etiquette and conduct. (Idaho Univ. Agr. Col. Ext. Circ. 55.) Moscow, 1936.

Illinois

- Illinois farm economics. nos. 12 and 13. May and June, 1936. Urbana.

Indiana

- DAVIS, J. J. Fighting insects in the vegetable garden. (Purdue Univ. Dept. Agr. Ext. Bul. 186, 3d rev. ed.) Lafayette, 1936.
HILTON, J. H. Feeding dairy cows for economical production. (Purdue Univ. Dept. Agr. Ext. Bul. 192, rev. ed.) Lafayette, 1936.
Snap beans for the canner. (Purdue Univ. Dept. Agr. Ext. Leaflet 183, rev.) Lafayette, 1936.
GANNON, E. A. A homemade dairy adjustment program. (Purdue Univ. Dept. Agr. Ext. Leaflet 200.) Lafayette, 1936.
LEE, O. C. Johnson grass and its control in Indiana. (Purdue Univ. Dept. Agr. Ext. Leaflet 201.) Lafayette, 1936.

Kentucky

- KELLEY, J. B., and MARTIN, J. H. Housing farm poultry. (Ky. Agr. Col. Ext. Circ. 107, 3d ed. rev.) Lexington, 1936.
OLNEY, A. J., and MAGILL, W. W. Raspberry culture in Kentucky. (Ky. Agr. Col. Ext. Circ. 235, rev.) Lexington, 1936.

*Prepared in the Office of Experiment Stations Library.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING JULY 1936

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Lexington, 1936.
- BURNAM, A. Home economics judging: 4-H club work. (Ky. Agr. Col. Ext.
Circ. 280.) Lexington, 1936.
- WHITEHOUSE, J. W. Recreation for 4-H clubs. (Ky. Agr. Col. Ext. Circ. 281.)
Lexington, 1936.
- HAAK, P. J. How to can fruits and vegetables. (Ky. Agr. Col. Ext. Circ. 282)
Lexington, 1936.
- BRYANT, T. R. Annual report for the year ended December 31, 1935. (Ky. Agr.
Col. Ext. Circ. 283.) Lexington, [1936]
- POLK, T. P., and BROWN, L. A. Rabies. (Ky. Agr. Col. Ext. Circ. 284.)
Lexington, 1936.

Maine

- TALBOT, R. F. Improving Maine pastures. (Maine Agr. Col. Ext. Bul. 223.)
Orono, 1936.
- MILLER, S. R. Maine agriculture. (Maine Agr. Col. Ext. Bul. 224.)
Orono, 1936.
- WITTER, J. F. Mastitis (garget): cause, detection, and control. (Maine
Agr. Col. Ext. Bul. 225.) Orono, 1936.
- DIRKS, C. O. Beginning with bees in Maine. (Maine Agr. Col. Ext. Bul. 226.)
Orono, 1936.

Massachusetts

- PAGE, E. C. Clothing construction problems. (Mass. State Col. Ext.
Leaflet 125, rev.) Amherst, 1936.
- Home economics projects conducted by Extension Service, Massachusetts State
College, Amherst, Mass. (Mass. State Col. Ext. Leaflet 135 [rev.])
Amherst, 1936.
- BAILEY, J. S. Peach growing in Massachusetts. (Mass. State Col. Ext.
Leaflet 146, rev.) Amherst, 1936.
- WAUGH, F. A., and DAVIS, A. M. Highway planting. (Mass. State Col. Ext.
Leaflet 163.) Amherst, 1936.

Michigan

- MUNCIE, J. H. Michigan potato diseases and their control. (Mich. State
Col. Ext. Bul. 162, rev.) East Lansing, 1936.
- YEATMAN, F. W., and STEINBARGER, M. C. Fruit jellies, preserves, jams,
marmalades, conserves, and butters. (Mich. State Col. Ext. Bul. 163.)
East Lansing, 1936.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING JULY 1936

(continued)

Minnesota

- MACK, M. J. Home-made ice cream. (Minn. Univ. Agr. Ext. Leaflet 164.)
University Farm, St. Paul, 1936.
- DANIELS, F. P. Strawberry growing in Minnesota. (Minn. Univ. Agr. Ext.
Spec. Bul. 72[rev.]) University Farm, St. Paul, 1936.
- Weeds. (Minn. Univ. Agr. Ext. Pamphlet 29, rev.) University Farm, St. Paul,
1936.
- CHRISTOPHERSON, C. H. Painting farm buildings. (Minn. Univ. Agr. Ext.,
Agr. Engin. News Letter no. 50.) University Farm, St. Paul, 1936.
- TYLER, A. G. Farm wells. (Minn. Univ. Agr. Ext., Agr. Engin. News Letter 51)
University Farm, St. Paul, 1936.
- ROMNESS, J. Materials to be used in farmstead wiring. (Minn. Univ. Agr.
Ext., Agr. Engin. News Letter no. 52.) University Farm, St. Paul, 1936.

Missouri

- MARTIN, T. T. Boys' and girls' 4-H club leader's manual. (Mo. Agr. Col.
Ext. [unnumbered, rev.]) Columbia, 1936.

Nevada

- Economic talks with Nevada farmers. v.1, no.4. June 1936. Reno.

New York

- HAMILTON, W. J., jr. Rats and their control. (N. Y. Agr. Col. (Cornell)
Ext. Bul. 353.) Ithaca, 1936.

North Dakota

- HANSON, H. C. Milk-tainting weeds and their control. (N. Dak. Agr. Col.
Ext. Circ. 143.) Fargo, 1936.
- JORDHEIM, V. Undergarments for 4-H club girls. (N. Dak. Agr. Col. Ext.
Circ. 145.) Fargo, 1936.

Ohio

- JONES, E. Liming Ohio soils. (Ohio Agr. Col. Ext. Bul. 177.) Columbus,
1936.
- Timely economic information for Ohio farmers. nos. 102, 103-A, 103-B.
June, July, July 15, 1936. Columbus, 1936.

Oregon

- WILSTER, G. H. The production of milk and cream of high quality. (Oreg.
Agr. Col. Ext. Bul. 489.) Corvallis, 1936.
- FOX, F. E. Feeding for egg production. (Oreg. Agr. Col. Ext. Bul. 490.)
Corvallis, 1936.
- SCHUSTER, C. E. Grafting and budding. (Oreg. Agr. Col. Ext. Bul. 491.)
Corvallis, 1936.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING JULY 1936
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South Carolina

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Clemson College, 1936.
- NETTLES, W. C. Important field crop insects. Part I of a series on insect
pests of South Carolina. (Clemson Agr. Col. (S. C.) Ext. Bul. 96.)
Clemson College, 1936.
- CUSHMAN, C. G. The trench silo. (Clemson Agr. Col. (S. C.) Ext. Circ. 121,
rev.) Clemson College, 1936.
- GOODING, P. H. Poultry sanitation and health. (Clemson Agr. Col. (S. C.)
Ext. Circ. 147.) Clemson College, 1936.
- GOODING, P. H. Turkey raising in South Carolina. (Clemson Agr. Col. (S. C.)
Ext. Circ. 148.) Clemson College, 1936.
- NEELY, J. Economic factors influencing egg marketing in South Carolina.
(Clemson Agr. Col. (S. C.) Ext. Circ. 149.) Clemson College, 1936.
- A food and feed budget for farm families. (Clemson Agr. Col. (S. C.) Ext.
Circ. 150.) Clemson College, 1936.
- RAWL, E. H. Sweet potato production. (Clemson Agr. Col. (S. C.) Ext.
Circ. 152.) Clemson College, 1936.

Texas

- WILLIAMSON, H. H. Extension work in Texas, 1935. (Tex. Agr. Col. Ext.
[unnumbered]) College Station [1936]

Vermont

- NORCROSS, H. C., and BROWN, A. A. Prices of farm products in Vermont,
1932-1934. (Vt. Agr. Col. Ext. Circ. 84.) Burlington, 1935.

Washington

- JOHNSON, O., and SNYDER, J. C. Peppermint oil production in Washington.
(Wash. State Col. Ext. Bul. 227.) Pullman, 1936.
- TURNER, R. M., and CARROLL, F. B. Farm trees in Washington counties in
1936. (Wash. State Col. Ext. Bul. 238.) Pullman, 1936.

West Virginia

- Family team work. (W. Va. Agr. Col. Ext., Good Living Ser. IV, Lesson no. 8.)
Morgantown [1936]

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SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
of the U. S. Department of Agriculture
received during July, 1936, exclusive of Bibliographies*
and current issues of serials.**

Office of the Secretary

New England and national agricultural policy. Address of Secretary of Agriculture, Henry A. Wallace, delivered June 9, 1936, at the 9th annual New England institute of cooperation, meeting at Mass. State college, Amherst, Mass. 15 p.

Research on industrial and other new uses for agricultural products, 1936. 23 p.

Agricultural Adjustment Administration

Farm mortgages and tenancy. 1936. 4 p.

The 1936 Agricultural conservation program in the North central region. Paper by G. B. Thorne, Director, North central division, for delivery before the American institute of cooperation at Urbana, Ill., June 19, 1936. 25 p.

Bureau of Agricultural Economics

Cotton fabrics for bituminous-surfaced roads. By R. J. Cheatham and R. Whitaker. June 1936. 16 p. (In cooperation with the Textile school of N. C. State college of agriculture and engineering, University of N. C.) Issued by Division of cotton marketing.

Farm tax data obtained for 45-year period. 1936. 3 p. (Issued by Division of agricultural finance)

Government grading of canned fruits and vegetables; questions and answers. By P. M. Williams. June 1936. 16 p. (Issued by Division of fruits and vegetables)

Livestock, meats, and wool market statistics and related data, 1935. June 1936. 158 p. (Issued by Statistical section, Division of livestock, meats and wool)

The long-time significance of a soil conservation program to livestock producers. By Dr. A. G. Black, for delivery at the annual meeting, American institute of cooperation, at Urbana, Ill., June 19, 1936. 1936. 16 p.

Monthly index of world industrial production 1920-1935. By N. J. Wall. A preliminary report. June 1936. 22 p. (Issued by Division of agricultural finance)

*Bibliographies included in general list of bibliographies on page 395.

**For a list of the principal series issued regularly, see v. 9, no. 10, p.354.

SELECTED LIST OF MINEOGRAPHED PUBLICATIONS

Bureau of Agricultural Economics (Continued)

- State and federal legislation and decisions relating to oleomargarine. Brief summary. Prepared by A. Dewees, under the direction of O. C. Stine, in charge, Division of statistical and historical research. June 1936. 47 p. (Issued by Division of statistical and historical research)
- Statistics relating to the orange industry, 1935/36. May 1936. 37 p. (FS) (Issued by Foreign agricultural service).
CF-88
- World cotton prospects (May and June Issues) June 9, 1936. 19 p. (C-128 and C-129) (Issued by Division of statistical and historical research)
- July 29, 1936. 11 p. (C-130) (Issued by Division of statistical and historical research)
- World hog and pork prospects. Summary. June 24, 1936. 11 p. (HP-79) (Issued by Division of statistical and historical research)
- July 30, 1936. Summary. 12 p. (HP-80) (Issued by Division of statistical and historical research)
- World wheat prospects. Summary. June 30, 1936. 16 p. (WH-122) (Issued by Division of statistical and historical research)
- July 31, 1936. 23 p. (WH-123) (Issued by Division of statistical and historical research)

Bureau of Agricultural Engineering

- Drainage investigations by the United States Department of agriculture. By L. A. Jones. (Paper to be delivered before the 50th anniversary convention of the Illinois society of engineers at Urbana, Ill., Jan. 30, 1936) 16 p. (Issued by Division of drainage)

Bureau of Biological Survey

- Sullys Hill National Game Preserve, North Dakota. Compiled by Clara Ruth. 1936. 5 p. (Wildlife Research and Management Leaflet BS-61.) (Issued by Division of Game Management.)
- Ducks and drought. Radio address, July 17, 1936, by Howard Zahniser.

Extension Service

- The hay program to meet economic needs. By E. O. Pollock. 1935. 5 p. Talk made at the meeting of the Extension section, American society of agronomy, Chicago, Ill., Dec. 5, 1935. (Issued by Division of cooperative extension)

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Extension Service
(Continued)

Leaders of home-management, house-furnishing, home-improvement, and home-industries projects, May 19, 1936. 7 p. (Issued by Division of cooperative extension)

North Carolina. Farm forestry extension work; plan of work, 1935. By W. Graeber, Extension forester. 1936. 14 p. (Issued by Division of cooperative extension)

Quality affecting feeding value of alfalfa hay and suggestions for use in purchasing alfalfa for dairy feeding. Prepared by E. O. Pollock, Bureau of agricultural economics in collaboration with Bureau of dairy industry. 1936. 4 p.

Some wildlife conservation work carried on in 1934. Excerpts from 1934 annual reports of state and county extension agents, prepared by Extension studies and teaching section. 1936. 14 p. (Issued by Division of cooperative extension)

Standard record and report forms suggested for use by state and county extension workers. 1936. 4 p. (Issued by Division of cooperative extension)

Suggestions for curing hay in the South. By E. O. Pollock. 1936. 1 p.

Bureau of Plant Industry

Milling and baking experiments with hard red spring wheats 1929-1935, by C. C. Fifield and J. A. Clark. 1936. 28 p. (Issued by Division of cereal crops and diseases)

Nectria cankers on northeastern hardwoods. By T. J. Grant, Emergency conservation work, Division of forest pathology. 1936. 4 p. (Issued by Division of forest pathology)

Producing and saving tomato seed. By W. S. Porte. June 1936. 2 p. (Issued by Division of fruit and vegetable crops and diseases)

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THE LIBRARY OF THE MINISTRY OF AGRICULTURE OF GREAT BRITAIN

The Library of the Ministry of Agriculture of Great Britain is described in the opening article of the Journal of the Ministry of Agriculture for July 1936 (p. 305-307). The Library, which contains about 30,000 volumes relating to all branches of agricultural science, is particularly intended for the use of the Ministry's officers, but "for many years past," to quote from the article, "its resources have been at the disposal of the public, arrangements having been made in 1908 under which most of the books may be borrowed by the public. This concession was introduced to enable farmers, agricultural students and others interested, to consult works that might otherwise not be accessible to them; and, in particular, to enable them to refer to special and technical works such as scientific reports published abroad, and to publications of Dominion and foreign Governments. Over 1,000 books are lent annually. The conditions upon which books may be borrowed are obtainable on application to the Ministry."

The complete catalogue of the Library is in card index form, based on the International decimal system. A selected and classified list of modern textbooks filed in the Library has been issued in the Ministry's Bulletin series* and lists of "Additions to the Library" and of "Selected Contents of Current Periodicals" are published in the Journal of the Ministry from time to time. The Library contains a valuable collection of early agricultural books, such as the County Reports of the old Board of Agriculture (1793-1822), the works of Arthur Young, William Marshall, John Sinclair, etc. A chronological list of these early works was published in the year 1930.** Another collection of special interest is the Cowan Memorial Library of books on beekeeping. This unique collection was made by the late Dr. Thomas William Cowan, the founder of the British Bee-keepers' Association. It comprises over 1,800 volumes consisting solely of literature devoted to bees and allied interests. It was purchased by the British Bee-keepers' Association and presented to the Ministry as a memorial to Dr. Cowan.

In addition to the Main Library there are also three branch libraries. The Plant Pathological Library is situated at Harpenden, Herts, and consists of approximately 2,600 volumes. The Veterinary Library is maintained at the Veterinary Laboratory, New Haw, Weybridge, Surrey. The total number of volumes is approximately 2,000, excluding reprints and reports. The Fisheries Library is divided into two main sections, one at the Headquarters of the Fisheries Department of the Ministry, the other at the Fisheries Laboratory, at Lowestoft. All these branch libraries are maintained primarily for the use and assistance of the Ministry's staff; members of the public are, however, admitted to the Fisheries Library at Headquarters, and books in all these collections are available for consultation by (and, in exceptional circumstances, loan to), scientific workers and other interested persons.

*Bulletin No. 78. A selected and classified list of modern textbooks on agriculture. H. M. Stationery Office, London. Price 7d, post free.

**Chronological list of early agricultural works in the Library of the Ministry of Agriculture and Fisheries. H. M. Stationery Office, London. Price 7d, post free.

MISCELLANY

The Johnny Appleseed Memorial Commission, Fort Wayne, Indiana, has recently issued a mimeographed pamphlet entitled "Johnny Appleseed". In its account of this interesting character, the Johnny Appleseed Memorial Commission "has tried to clarify, simplify and correct many points concerning the real life of this hero. Much new material has been found during the last two years. Some of the most important of these articles have been compiled in this pamphlet."

"History of the Sheep Industry in Arizona" by Bert Haskett, is the opening article in the Arizona Historical Review for July 1936 (vol. 7, no. 3, p. 3-49). Mr. Haskett is associated with the Bureau of Animal Industry of the U. S. Department of Agriculture. His history of the sheep industry in Arizona extends from the 16th century to the present time. Of special interest in connection with the history of the U. S. Department of Agriculture are the pages (36-44) devoted to an account of the controversy beginning in the late nineties, relative to the use of the forest reserves for sheep grazing.

At a meeting of the National Advisory Committee on Research in Poultry and Poultry Products which was held in Blacksburg, Virginia, August 8-11, 1936, two sessions, one in the morning and one in the afternoon of August 10, were devoted to a round table discussion of a bibliographical service for the poultry industry. The conference, which was called and arranged by Mr. Paul Mandeville, Vice President in Charge of Investigations, Institute of American Poultry Industries, was presided over by Dr. Paul E. Howe, Chief, Animal Nutrition Division, Bureau of Animal Industry, U. S. Department of Agriculture. Others present who took part were Dr. H. M. Lydenberg, Director, New York Public Library; Dr. L. J. Cole, Chairman, Department of Genetics, University of Wisconsin; Prof. W. H. Graham, Chairman, Department of Poultry Husbandry, Ontario Agricultural College (Canada); Dr. George F. Stewart, Chairman, Scientific and Technical Committee, Institute of American Poultry Industries; Dr. J. R. Schramm, Editor, Biological Abstracts, Dr. Mary E. Pennington, New York City, and Miss Claribel R. Barnett, Librarian, U. S. Department of Agriculture. Mr. Harrison W. Craver, Director, Engineering Societies Library, who was invited to attend the conference, was unavoidably detained in New York. Dr. James T. Jardine, Chief, Office of Experiment Stations, U. S. Department of Agriculture, and Dr. H. H. Mitchell, Chief of Animal Nutrition, University of Illinois, were also unable to be present. Among the subjects discussed were abstracts of poultry literature, critical reviews, monthly and annual summaries, the question of library research units in Chicago, New York and Washington, and the possibilities of cooperation with the British Central Agricultural and Scientific Bibliography. At the close of the meeting a committee, of which Dr. L. J. Cole was Chairman, was appointed to make recommendations to the National Advisory Committee on Research in Poultry and Poultry Industries.

MISCELLANY
(continued)

The Librarian of the Oregon State College has sent the following note:
"The Oregon State Library is the recipient of a fine collection of books, the value of which is estimated to be in excess of \$2500, from the private library of the late Hiram Dryer McClaskey, of Central Point, Oregon. The collection includes over a thousand bound volumes, as well as several hundred unbound volumes. The gift consists of professional geological mining books, United States Geological Survey publications, some unusual items on the Philippine Islands, works on gardening (rose gardening in particular), fush and game, and a number of miscellaneous books. Mr. McClaskey was particularly well known as an authority on the gold, silver and quicksilver resources of the United States, and as an authority on the mineral resources and geology of the Philippine Islands. For many years he served in important positions with the United States Geological Survey.

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YEARBOOK OF AGRICULTURE: 1936

The following description of the Yearbook of the U. S. Department of Agriculture for 1936 is taken from a press notice of the Department: "The first volume of what in effect is a Who's Who of plants and animals is off the press at the Government Printing Office. The volume goes under the familiar title 'Yearbook of Agriculture: 1936' but the resemblance to previous yearbooks ends there. Both in typography and in content the 1189-page book breaks with the past. Agricultural statistics, which used to require half of the Yearbook, are cut to 32 pages in the 1936 book, leaving to a separate volume* the usual detailed tables. 'Better Plants and Animals' is the sub-title of the main section of the new Yearbook, and it presents the results of what is probably the first comprehensive survey of superior plant and animal germ plasm, the vehicle of inheritance. For each of the major crop and livestock groups the book presents a genetic history, a critical survey of superior strains, a discussion of genetic problems and how to meet them, and an extensive catalogue of what seems to be superior germ plasm. The articles cover corn, the small grains, sugar beets and sugar cane, cotton, flax, tobacco, and the major livestock classes. The 1937 Yearbook will deal with fruits, vegetables, flowers, and miscellaneous organisms of agricultural importance. Henry A. Wallace, Secretary of Agriculture, whose special interest in plant breeding prompted him in 1933 to appoint a genetics committee in the Department of Agriculture with the present volume in mind, says in a foreword that 'The Yearbook shows how much we know and also how much more we should know but do not as yet... I trust that the day will come,' the Secretary concludes, 'when humanity will take as great an interest in the creation of superior forms of life as it has taken in past years in the perfection of superior forms of machinery. In the long run superior life forms may prove to have a greater profit for mankind than machinery.' A limited number of copies of the 1936 Yearbook has been made available to Members of Congress and to the Department of Agriculture. It will also be on sale through the Superintendent of Documents, Washington, D. C., at \$1.25 a copy."

*This separate publication is entitled "Agricultural Statistics".

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THE BRITISH CENTRAL AGRICULTURAL AND SCIENTIFIC BIBLIOGRAPHY

[The following article is copied from a circular describing a new bibliographical service in the field of agriculture which is offered in connection with the Science Library at the Science Museum, South Kensington, London. The scheme went into operation on March 2, 1936. It seemed advisable to include the information in Agricultural Library Notes because of its interest in agricultural library work.]

CENTRAL AGRICULTURAL AND SCIENTIFIC BIBLIOGRAPHY.

(1). Agricultural Section (C.A.B.)

It is important that our largest industry, Agriculture, should possess a bibliographical service from which can be obtained references to the latest published technical data on Agricultural subjects, including those activities which supply the industry with materials and machinery, or dispose of its produce in the raw, or after this is worked up into finished products in all countries.

Some four thousand journals and technical publications dealing with Agriculture are published in all parts of the world. Numerous books and pamphlets also find their way from the printing press, containing special and important information of a technical nature.

The difficulty of indexing the literature of any scientific or technical subject lies not only in its quantity, but in its scattered nature. This happens because any scientific fact is of interest from several points of view and may be recorded in a periodical devoted to one of a widely differing set of subjects. Consequently, in attempting to index the whole literature within a particular field, it is necessary to scrutinise a mass of periodicals on "border-line" and on related subjects in addition to those journals that are specially devoted to the subject in question.

It is impossible for any private individual, or trading concern, to abstract and sift such an overwhelming mass of information; nor can any existing society, or Institution, undertake this work successfully, without an enormous equipment of technical literature, which would take years to get together, and classify for reference purposes.

Already a number of institutions exist, which abstract periodicals purporting to deal specifically with agricultural subjects. But a central bibliography is needed of the information contained in the mass of literature on border-line and related subjects.

There is one library, at least, which already possesses the required literature to the extent of one hundred thousand books on agriculture and cognate subjects and about two thousand of the world's journals within this field. In addition the library files all published abstracts and index references to agriculture and all branches of pure and applied science. This library is the Science Library at the Science Museum, South Kensington, London.

As a result of negotiations carried on with the Science Museum authorities, permission has been obtained from the Board of Education, which controls this Library, for the proposed Bibliography to be set up at this important centre, provided the scheme is developed under the control of the Keeper of the Library, and under regulations he may set up from time to time. Each section of this Bibliography will be worked separately, although the general advantage of co-operation will be secured.

Proposed Outlay on "C.A.B."

Under such exceptional circumstances the expense of this extension could be met by an annual sum of about one thousand pounds only; although as the scheme develops in membership this sum would automatically extend.

The sum in question would be placed at the disposal of the Keeper of the Science Library, and utilised for the general services of this scheme, and particularly for the employment of the additional abstractors required. The Bibliography so prepared will become the property of the Science Museum, in due course, and therefore the scheme has a National character, as well as an industrial use for research and investigation, and the continual working-out of improved methods on the land itself on practical lines.

This special Bibliography on Agriculture and Allied Industries will supplement the bibliographies on General and Technical Science which are being built up at that centre by its scientific staff.

Technical Details

The "Standard" or "Decimal" Card-Index system of classification is in operation at the Science Library; and experience has indicated that in certain directions this possesses great advantages, as it can be extended indefinitely to cover any possible information which may be required. Including bibliographies published on other systems, the library already (it is estimated) contains no less than 40,000,000 references.

An Agricultural Bibliography to be most useful must form part of a larger one dealing with Scientific and Technical knowledge generally, such as the one already present in this Library.

This Agricultural Bibliography will bring forward the following services, which will be available for those who join the proposed scheme:-

(1). Facilities for reference to available Books, Journals, &c., on Agriculture in the Science Library.

(2). Use of information contained in the Agricultural section of the Standard Card-Index Bibliography, as this exists to-day, and will be greatly extended under this scheme.

The Science Library Index contains some two million references, and is being extended at the rate of some one hundred and fifty thousand others annually.

(3). The Agricultural Bibliography will be supplemented by an exceptionally complete collection of other bibliographies which can also be consulted.

(4). By further reference, additional information can be obtained from certain other libraries here, or abroad, which utilise the "Standard" system; such interchange of information taking place through a special International organisation already set up.

(5). Information for those specially interested, in the form of lists of papers and publications on special subjects coming within the range of this Bibliography.

(6). Translations and digests can then be secured from fully qualified persons, on a panel at a reasonable cost.

(7). Loan of selected books and journals on Agriculture and allied industries and subjects on payment of cost of postage, or by personal collection.

THE BRITISH CENTRAL AGRICULTURAL AND SCIENTIFIC BIBLIOGRAPHY
(continued)

Inquiries should be addressed to the recognised Information Bureau or to the Science Library. Requests for lists of papers will be dealt with by the Science Library, or by the appropriate institution. Inquiries for information other than the lists of publications will be dealt with by the recognised body, any needed lists of references being supplied by the Science Library.

Three Years' Scheme

For a definite period of three years, the Science Library will be relieved of any cost under this scheme. It is confidently hoped that under such exceptional conditions and the National character of the work and importance of the Bibliography many will avail themselves of this special service, and subscribe the necessary funds required to put it in operation.

Institutions, Societies, and Clubs, Chambers of Agriculture, and Industry, Agricultural Stations, County Organisations and all those interested in the better utilisation of the land are asked to co-operate in working this scheme. Manufacturers supplying, or taking, products from Agriculture generally, manufacturers of general and agricultural machinery, plant, &c., should also benefit as they come within this scheme, which it is hoped to bring into operation within a few months, and certainly during this Jubilee Year. Those who join during 1935 will be classed as "Original Subscribers."

Reorganisation of Agriculture

The reorganisation of Agriculture which is taking place in this country demands a knowledge of all that is taking place in other countries, and a knowledge generally and technical data of work in this country. Such a centre as the one indicated will be able during the next three years to supply invaluable information on such subjects. This service will be run through the joint efforts of the Science Library and the Industry as a whole.

Some twelve thousand persons hold 300 or more acres of farm value in this country. Some 371,000 areas are registered as running from one acre upwards, which include 170,000 farms of 50 acres and above. Capital value of this industry to-day is £1,000,000,000. This value fell £250,000,000 between 1925-31.

The National Farmers' Union has a membership of no less than 120,000. The Central and Associated Chambers of Agriculture with its affiliated bodies has a collective membership of 90,000. Agricultural Societies, Trade Associations, Clubs and the like also have large memberships. Affiliated industries have similar organisations. £300,000 per annum is spent on Government-aided Agricultural Research Stations in this country, apart from that on private and industrial research, yet there is no Central Bibliography for the practical man.

Our Dairy Industry alone employs twice as many persons as the whole of the Woollen Industry of this country, twice as many as the Iron and Steel Industry, and three or four times as many as the whole of our Shipping Industry; yet 480,500 tons of butter were imported in 1933-34, while 50,000 tons only were manufactured here. Our sugar-beet production still varies between 8 and 22 tons per acre, and the average is 50 percent less than in Holland. Some 65 percent of the world's population is engaged in Agriculture (or some 1,301 millions), which figure has fallen in this country to 7 percent, although 15 percent can be regarded as the minimum compatible with physical development, national prosperity and security. 2,000,000 acres are derelict, many others need reclaiming to prevent loss.

Some 827,000 persons are engaged on the land in this country against 996,000 in 1921, and 6,000,000 in France. Home production is still far behind Germany, Italy, and France; an additional 300,000 should be suitably settled on the land here. Every industry is involved in the success of this one, which must in the long run depend for its success upon efficiency and the high quality and regularity of its products, which must at least equal that of imported goods. Every modern agriculturist should, in the light of available knowledge, make some subject his own. We are the most backward of all leading nations in the mass production of food products, an insecure position for Town and Country alike.

Organisation of Scheme

This scheme will be in the hands of an independent Agricultural Bibliography Committee, members of which will be appointed by the leading Institutions, etc., supporting it. It will control financial and general operations. There will be a small practical Committee to deal with matters concerned with the character of the information supplied to subscribers.

When a search indicates that the available information on a special subject is incomplete, information of this will be passed on to our leading Research Stations and Agricultural Colleges, so that further data may be available in due course. The thoroughly practical nature of this Bibliography is pointed out; and the fact that it will supplement any present activities in the direction covered, as these are carried on already in other directions, or by research stations for their own special use.

An annual subscription for subscribers of ten shillings a year (minimum) will suffice if some two thousand join, and agree to pay their subscriptions for a minimum period of three years. Where large industrial concerns join the Bibliography, a minimum subscription of five guineas per annum is asked. The Guarantee Fund makes certain that the present scheme remains in operation for the three years mentioned, by which time it is thought that all existing organisations dealing with the collection of information useful to Agriculture will have co-operated in a common scheme.

Nature of Bibliography

This Bibliography on Agricultural and allied subjects collected from all sources will contain references to sources of useful information on the following and other subjects:-

General Farming Practice in Great Britain and elsewhere.

Dairy Products and their production.

Milking: Cooling, Processes, Storage, Mechanical Milking, Pasteurisation, and other methods of treatment; Clean Milk, Milk Testing, &c.

Animal Husbandry in all its branches. Stock Breeding, &c.

Arable and Root Crops and their production in different countries.

Pasture Lands, values and improvements in, and uses.

Beet and Beet Sugar production, and secondary products.

Fertilisers, Natural and Synthetic, and applications.

Nutritional Values of Food Products.

Plant Breeding and New Crops.

Hop Growing and subsequent treatment.

Brewing and Fermentation Industries and products.

THE BRITISH CENTRAL AGRICULTURAL AND SCIENTIFIC BIBLIOGRAPHY
(continued)

Cultivation of different Lands, and their best use.
General Engineering, Water Supply, Dew Ponds, Drainage of Farm Lands, &c.
Agricultural Engineering utilised in all countries.
Power Production on the Farm. Electricity and its use, Mechanised Farming, &c.
Fuels and their Relative Efficiency, and cost on Farm Lands.
Chemical Engineering as applied to Farm Lands. Drying of Crops, Lime Production, &c.
Veterinary Science and its application in Agriculture.
Horticulture in all branches. Intensive cultivation, &c.
Fruit and Vegetable Production, Preservation, &c.
Meat and Meat Products. Pigs and Bacon Curing, &c.
Poultry Breeding and Keeping. New Methods. Disease Prevention, &c.
Rural Industries, Development and Reorganisation of.
Cider, Perry, and British Wines production.
Fibres, Linen, &c.
New Agricultural Products, and Processes, Silos, &c.
Farm Accountancy.
Food Products for Human, and Animal Use.
Food Preservation. Canning Industry. Refrigeration. Co₂ Treatment, Dry Ice, &c.
Fish and its Preservation.
Essential Oils, Tobacco, &c.
Utilisation of Agricultural Products, and Industries for same.
Forestry, Wood, and its uses. Distillation products, &c.
Development of Waste Lands. Irrigation. Methods of Land Recovery, &c.
Empire and Foreign Products.
Industrial Bacteriology, Physiology, Zoology, Botany, &c.

Offers of support, and all information on this subject should be sent to or obtained from, the Hon. Secretary, The Agricultural Bibliography Committee, 27, Willow Road, London, N.W. 3.

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INTERNATIONAL COMMITTEE OF AGRICULTURAL LIBRARIANS

At the conference of the International Federation of Library Associations in Warsaw in June 1936, the President, Dr. Sevensma, in making his report on new member associations, included the International Committee of Agricultural Librarians. His report having been unanimously approved, the Committee is now a member of the Federation. Following the reports read by the various representatives of the national library associations, Dr. Sigmund von Frauendorfer, Secretary of the International Committee of Agricultural Librarians, who was present at the meeting, read a report on the origin, program and activity of the Committee. As stated in a former communication, the subscription dues will be 0.50 Swiss francs per member of the Committee, or a total of 9 francs. As the report submitted by Dr. Frauendorfer was similar to the report which he submitted at the meeting of the Agricultural Libraries Section at the American Library Association Conference in Richmond (see Agricultural Library Notes, May 1936, pp. 285-286), it will not be reprinted here.

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AGRICULTURAL LIBRARY NOTES

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ISSUED MONTHLY
BY THE
UNITED STATES DEPARTMENT OF AGRICULTURE LIBRARY
WASHINGTON
D. C.

AGRICULTURAL LIBRARY NOTES

Vol. 11

September 1936

No. 9

RULES OF LIBRARY OF CONGRESS IN REGARD TO THE LOAN OF BOOKS TO GOVERNMENT DEPARTMENTS

The attention of Department workers is called to the following notice, dated September 4, 1936, from the Library of Congress in regard to the loan of books to Government Departments. The Department of Agriculture is greatly indebted to the Library of Congress for the service which it renders in connection with the loan of books. The number of books borrowed is large and the service prompt. It is therefore earnestly requested that the rules of the Library of Congress which are given below be carefully observed. Please note that the time limit for the loan of books has been changed to two weeks:

"The great increase in the number of books lent by the Library of Congress to the rapidly expanding U. S. Government agencies makes it necessary, if we are to give satisfactory service to all, to restate several of our rules.

(a) Books lent officially may not be taken out of the city. They are intended for use only in the U. S. Department, Bureau or other agency to which they are lent, for official business.

(b) Books may not be 're-lent' or transferred for use to another U. S. Government agency.

(c) Books borrowed officially may not be used to meet a personal or unofficial need.

(d) Books may not be kept longer than our regular period of loan, which is two weeks, unless a renewal has been officially arranged extending the period for two weeks longer. If there is no other demand for a particular book such renewal is usually arranged. The need of many of the U. S. Government agencies for the same classes of books makes it necessary that the books be lent for a period not in excess of a month -- preferably for only two weeks.

(e) All requests for the loan of books should be by letter. If there is an urgent need for a book we are prepared to accept an order by telephone but it should be promptly confirmed formally by letter.

Herbert Putnam,
Librarian of Congress

By M. A. Roberts,
Superintendent of Reading Rooms

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Bureau of Agricultural Economics

Carlot unloads of certain fruits and vegetables in 66 cities and imports in
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Construction and use of the official standards for American cotton linters.
July 24, 1936. 4 p.

Cotton revisions; acreage, yield and production. Crop years 1924-1935. By
states. Washington, June 1936. 7 p. (Issued by Crop reporting board)

Fats and oils, and the excise taxes of 1936. 17 p. Issued July 1936.
(Issued by Division of statistical and historical research)

General crop revisions. Crop years 1924-1935, acreage, yield and production.
By states. Washington, June 1936. 103 p. (Issued by Crop reporting board)

Meat grading effective and far-reaching. By B. F. McCarther. At annual con-
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August 3, 1936. 4 p.

Official standard grades for flue-cured tobacco (U.S. Types 11,12,13, and 14)
August, 1936. 11 p.

Oleomargarine, statistics of production, materials used in manufacture, con-
sumption, trade, and prices. Prepared by Anne Dewees, under the direction
of O.C. Stine, in charge, Division of statistical and historical research.
Aug. 1936. 58 p. (Issued by Division of statistical and historical
research)

Price spreads between the farmer and the consumer. By R. O. Been, Jr., and
F. V. Waugh. July 1936. 73 p. (Issued by Division of marketing research)

Quality of cotton linters produced in the United States. Season 1933-34 and
1934-35. By V. R. Fuchs, vice chairman, Board of cotton linters examiners.
A preliminary report. Washington, D.C., July 1936. 18 p. (Issued by
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- Revised estimates of buckwheat acreage, yield per acre, and production, 1866-1929. August 1936. 34 p. (Joint project of the Division of crop and livestock estimates and Statistical and historical research and Crop reporting board)
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- Suggestions to prospective farmers and sources of information concerning the agriculture of a given region. Washington, July 1936. 31 p. (Issued by Division of land economics)
- Summer poultry and egg outlook. 1936. 5 p.
- Tariff rates on principal agricultural products. By C.F. Wells, Division of Statistical and historical research. July 1936. 71 p.
- Tentative United States standards for grades of canned pears. Effective June 22, 1936. 10 p.
- Truck receipts of fresh fruits and vegetables at 11 important markets for calendar years 1935 and 1934 and stated in car-lot equivalents by months for 1935 and totals for 1935 and 1934. Washington, July 1936. 35 p. (Issued by Market news service)
- United States standards for rough rice. As amended, effective Aug. 1, 1936 13 p.

Bureau of Biological Survey

- Suggestions on trapping coyotes and wolves in Alaska. By H. H. Gubser. 1936, 6 p. (Wildlife Research and Management Leaflet BS-62) (Issued by Division of Game management)

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Raising martens in captivity. 1936. 2 p. (Wildlife Research and Management Leaflet BS-63) (Issued by Section of fur resources, Division of wildlife research)

This season's duck hunting rules. Radio address, August 28, 1936. by Ira N. Gabrielson.

Extension Service

Foreign agricultural extension activities. Compiled by Division of cooperative extension, Extension studies and teaching section. June 1936. 26 p. (Extension service circular 243)

Forest Service

Address by E.A. Sherman, Assistant chief, U.S. Forest service, at Dedication of Stuart Forest nursery, Kisatchie National Forest, Louisiana, June 17, 1936. 8 p.

Fifteenth annual report of the Southern forest experiment station, E. L. Demmon, Director, New Orleans, La. January 1, 1935 - December 31, 1935. 41 p. (Issued by Southern forest experiment station)

The Forest products laboratory. By F. J. Champion. April 1932. 11 p. (This paper was prepared for publication in the Military engineer) Issued by Forest products laboratory.

Lessons from past forest planting in the Lake states. By P.O. Rudolf. July 10, 1936. 6 p. (Issued by Lake states forest experiment station)

Seed and nursery practice. March 23, 1936. Washington, 1936. Sections A - E, separately paged. (Issued by Plains shelterbelt project)

Treated wood for houses. By G. M. Hunt. 1935. 5 p. (Published in Bulletin 4 of Pacific coast building officials' conference. Sept. 1935) (Issued by Forest products laboratory)

Wood slat snow fence. By A. O. Benson. March 1936. 8 p. (Issued by Forest products laboratory)

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TRANSLATIONS

Following is a selected list of translations recently made for the Bureau of Entomology and Plant Quarantine and deposited in the Library of the Bureau.

- BLUNCK, H., and MERKENSCHLAGER, F. Zur Ökologie der drahtwurmherde. [On the ecology of wireworms]. Nachrbl. Deut. Pflanzenschutzdienst. 5(12): 95-98. Dec. 1925.
- CAMINHA, ADRILO, filho. Timbos e rotenona. Uma riqueza nacional inexplorada. [Timbo and rotenone. An unexploited national resource]. Brasil (Rio de Janeiro). Min. Agr. Conselho Florestal Fed. Pub. l. April 18, 1935. Also in: Bol. Min. Agr. (Rio de Janeiro, Brasil) 24(4-6): 15-25, Apr.-June 1935.
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- LE GOUPIL, Les propriétés insecticides du bromure de méthyle. [The insecticidal properties of methyl bromide]. Rev. Path. Veg. et Ent. Agr. 19 (4-5): 169-172. Apr. - May, 1932.
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- Contribuzioni alla conoscenza dei Calcididi Italiani. Contribution to the knowledge of Italian chalcids. Parts XXXII- XXXVII. Bol. Lab. Zool. Gen. e Agr. R. Scuola Super. Agr. Portici 4: 21-37, 1910.
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- MISSIROLI, A. Alcuni protozoi parassiti dell'"Anopheles maculipennis." [Some protozoa, parasites of "Anopheles maculipennis."] Riv. Malarialogia (Rome) 7(1): 1-3. 1928.

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- MISSIROLI, A. Ricerche sui flagellati che si riscontrano nell' "Anopheles maculipennis." Researches on flagellata which are found in "Anopheles maculipennis." Riv. Malariologia (Rome) 9(2): 111-119. March-April 1930.
- PETRASCHEK, K. Einiges über die angewandte entomologie in Amerika und ihren einfluss auf die entomologischen reformbestrebungen in Deutschland und Deutsch-Oesterreich. [Notes on applied entomology in America and its influence on the reform aims of entomology in Germany and German Austria]. Forstwiss. Centbl. 41(5): 161-173. 1919. (Translation of p. 169-173 only.)
- RIBAGA, CONSTANTINO. Di una peculiare alterazione delle foglie di gelso dovuta ad un omottero. [A peculiar alteration of the leaves of the mulberry tree due to a homopteron.] Redia 4(2): 329-333. 1907.
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- Di una nuova specie di Aleurodes vivente sull'olivo. [About a new species of Aleurodes living upon the olive tree]. Bol. Lab. Zool. Gen. e Agr. R. Scuola Super. Agr. Portici 5: 214-225. 1911.
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A WORLD INDEX TO SCIENTIFIC AND TECHNICAL LITERATURE

At the recent meeting in Warsaw of the International Federation of Library Associations, Mr. E. Lancaster Jones, Deputy-Librarian, Science Museum Library, London, presented the first report of the Sub-committee of Special Libraries and Information Centres. Permission has been obtained for including in *Agricultural Library Notes* the following extracts from the report, which include some of the introductory paragraphs and the paragraphs regarding *A World Index to Scientific and Technical Literature*. It is believed that these will be of much interest to scientific and technical libraries in this country, as the Sub-committee is specially concerned with the promotion of cooperation between existing activities, and with the constitution of new contributing agencies to cooperative schemes which have demonstrated their value.

"In specialized institutions, the rapid dissemination of information concerning publications and documents is of fundamental importance. Specialists, e. g., scientific and technical workers, are frequently domiciled in districts remote from adequate collections of literature. Even where such collections are available, the mass of relevant current and past literature is so great that scrutiny of the aggregate is impossible. Guidance is therefore necessary in the form of analyses, abstracts, reviews and summaries of progress. Reproduction of articles and documents is an extensive and growing practice... It is recognized that many of the guides, directories and services most valuable to the specialist have in the past been provided by the initiative and resources of the great general and specialist libraries, or by scientific bodies such as the Royal Society, London. However great the need for digests, summaries, abstracts and the like... the two fundamental elements in connection with specialized information still remain those which are equally fundamental to the general library, namely, the publication itself and the catalogue or bibliographical reference which describes it. The acquisition and preservation of publications must remain primary functions in any scheme of a network of information. It may well be that certain component institutions of the network focus on this phase, whilst other components limit their activities to supplying abstracts, reviews and summaries.

"In dealing with the problems of special libraries and information centres, however, it must be recognized that a wider significance is to be given to the terms 'publication' and 'bibliographical reference' than is customary in general libraries. The primary element in a general library is the book, and its customary descriptive reference simply relates to the book as a whole - its author, title, format, etc. In a special library, however, and still more so in an information centre, the primary element is the individual article in a periodical, or report of a specialist in which some minute detail of progress in research or experience is given to the world.

"The minimum bibliographical reference necessary for the specialist is therefore a reference to the individual article or report in which each detail of progress is recorded. For many purposes that bibliographical reference needs supplementing by an abstract. In addition, specialists are continually needing up-to-date summaries of the stage of progress attained in any one minute field of knowledge.

"Three problems are thus the particular concern of the special librarian. Firstly, the provision of adequate bibliographies of articles and reports, secondly the provision of abstracts and digests, thirdly the provision of

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(continued)

summaries of progress and of the stage of knowledge reached at a given date. In addition, there are the problems of collection of the actual publications, access to them, reproduction of the articles, etc. But these are general library problems, and only concern the special librarian to a greater extent because the demand is more vigorous and the urge to devise suitable methods and mechanisms is more insistent...

"The supply of bibliographical references. In regard to this problem, the special library is handicapped by the magnitude of the task involved. Whereas a library acquiring five thousand books annually can easily catalogue this quantity, a library acquiring five thousand specialized periodicals finds the task of making bibliographical references to the hundred thousand or so articles contained therein beyond its power. It must rely on outside assistance. It is true that there are many special libraries and information centres which do not acquire accessions of this magnitude, but it is rare that the library staff itself can cope with the material acquired.

"One common arrangement is for the specialists of the institution to which the library is attached to undertake the indexing of the publications. But such staff is rarely under the control of the librarian, and the products of their labour are rarely of a form which a body of expert librarians would approve. They suffice, perhaps, for the needs of the institution, or rather they appear to suffice.

"But a feature in all special institutions and libraries is that the range of interest is continually widening, especially in the field of science and technology. The specialist is for ever extending his boundaries, and wanting to know what workers in kindred fields are doing about some common problem. The special library has then to acquire publications relating to these new fields, and these can only be partially indexed by its own circle of specialists. The result is a somewhat chaotic output of special indexes, overlapping and duplicating one another, and yet in the aggregate tending to be incomplete in any given field, and to lack that uniformity which is necessary before a survey and rationalization of the output can be effected.

"It is a commonplace, for example, to find a specialized bibliographical service claiming to peruse and index so many hundred periodicals, whereas in fact it only indexes a small percentage of these completely, a larger percentage rather half-heartedly, and a considerable residual percentage either very indifferently or not at all. In the aggregate the indexing of the total output of specialized periodicals in a broad field of knowledge is duplicated to a redundant extent for the most valuable small percentage of first class periodicals, and for some of the less important but more numerous second class category, whereas most of the minor specialized periodicals obtain only a cursory scrutiny and consideration. This may not be a serious matter, though it is not at all certain that useful information is not thereby buried in obscurity; and it seems reasonable to think that some of the labour devoted to redundant duplication in the indexing of the more important journals might well be diverted to indexing the mass of less important ones. The articles in the latter might at least have a bibliographical reference provided for them, so that the specialist could learn of their existence.

"What is a more important consequence is that the task of the special librarian in aggregating the references to his subject from the numerous sources is rendered unnecessarily laborious. Owing to the diversity of

systems employed in the bibliographical specifications of different sources, the librarian is forced to search hither and thither among a welter of classifications and abbreviations to the titles of journals before he can form his individual index. Again, the specialists who compile the several indexes have to search large numbers of periodicals generally concerned with subjects remote from those of the specialists, in order to find the few relevant articles.

"Finally there is the problem of the supply, from the special library or information centre to the inquirer, of up-to-date bibliographies on special subjects. At the library or centre, there may exist some repertory of references, assembled from many different sources. The reproduction of any set of these involves problems of standardization and copying. Lack of uniformity in the products of the original sources may necessitate re-editing and classifying every reference according to some standard adopted by the centre. If the problem of the original supply of references were solved rationally, the problem of providing cumulated bibliographies for any subject at any date might reduce to one of more mechanical routine.

"That is the objective at which special libraries and information bureaux should aim, in regard to the supply of bibliographical references.

"The supply of abstracts. The situation in regard to abstracts of specialized literature resembles that of index references. There is the same multiplicity of sources, duplication as regards the more important articles and lacunae as regards the less important. Here the conditions are more onerous. Only an extremely specialized worker is fitted to abstract the literature, and the quota of specialists available is more restricted, whilst the number necessary for the work is greater, than in the case of index references. Languages are more important; a specialist needs abstracts in his own language, whereas he may be content with references in any of the more usual languages. The reproduction of cumulated abstracts by the collecting centre for the outside inquirer is an almost impracticable task. Uniformity of abstracting technique is difficult to conceive as a practical objective. In fact, the abstract is essentially designed to afford a highly specialized day-to-day service of information regarding new activities, rather than ad hoc service of information as to the stage of progress attained in regard to any special subject. From this latter standpoint, the abstract should better be regarded as indicating to the centre of information what articles need be scrutinized in order to provide a summary of progress which will really satisfy the inquirer.

"Summaries of progress. Both the special librarian and the director of an information bureau regard the periodical summaries of progress in specialized fields as the ideal element of an information service, and the value of these is being more and more appreciated by specialists. As published, they tend to appear only at long intervals, though many are now available annually. Hitherto the supply of these valuable reports does not meet the full requirements, and there is little organization in their production. The technique and characteristics of them have not yet received the attention which is their due.

"Objective of an information service. Actually, the objective of an information service should be to supply at any moment an up-to-date summary of progress in regard to any desired specialized subject. This should comprise a number of elements, each of which possesses if possible the essential property

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of being cumulated into a series, so that the assembly represents the complete summary. Articles, references and abstracts possess this characteristic of adaptability to cumulation, but a mere sequence of articles, references and abstracts is a poor substitute for a summary. The necessary elements comprising the summary must themselves be summaries, relating to definite periods, and the work in succeeding periods may render obsolete much of the work in preceding cycles, but not all.

"Probably all that the information centre can hope to do as a routine is to provide the inquirer with a complete bibliography of references, coupled with such a series of summaries relating to the details as happens to be available. In addition, of course, the centre should provide access to the individual articles, or copies of any which the inquirer may decide to consult.

"Public and private information services. A sharp distinction is to be made between the supply of information to public inquirers and that to private inquirers. If the information bureau or library is attached, as is usual, to a particular institution, it may have obligations in regard to the members of that institution which do not apply to the general public.

"The Federation of Library Associations and the present Sub-committee cannot concern themselves with private documents, but only with such as are published or open to reproduction and therefore available as a basis of information to a public inquirer.

"Steps towards rationalization of information services. The fundamental basis of the specialized information service must remain the bibliographical index, containing those essential particulars which serve to identify the documents for the purpose of acquisition, storage, issue and reproduction. Since specialized information is linked up to subject classification, the references must be classified. If the references are not supplied to the centre in a uniform state, they need unification by the centre. But there is a real need for the unification at the source of supply, so that different centres may cumulate different elements into specialized repertories without further modification. The existing chaos in the simple primary elements of bibliographical specification is quite unnecessary. Standard rules exist for this, and could easily be adhered to by the bibliographical services.

"But more is needed, namely, co-ordination of production whereby duplication is avoided.

"One simple plan is to have national supply services, which concern themselves each with its own literature, i.e., national bibliographies. To be of real use to the specialist such bibliographies must index articles in periodicals as well as books and periodicals as a whole...

"The indexing of the major countries is mainly carried out by specialist services. Bearing in mind the need for classifying the references in detail, it is evident that the production of a world index to a broad field of literature must be carried out by specialist sections. Each section may consist of national sub-sections in each specialty, but experience shows that specialists very rarely confine their indexing activities to their national literature. Therefore, it is more probable that an efficient world index could be made by setting up specialist indexing centres in different countries, each centre concerning itself with the special literature of the whole world, or one large section thereof.

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"The only common factor necessary for these centres is the use of a uniform scheme of preparing the reference, including the classification.

"A world index to scientific and technical literature. The following scheme for a world index to scientific and technical literature has been brought to the notice of the Sub-committee by the Science Museum Library.

In the field of science and technology, the only classifications which come into consideration are those of the International Catalogue of Science, and the Universal Decimal Classification. The former is restricted to Pure Science and is very little used now, but the latter is employed to an ever growing extent, in very varied specialized fields. The total number of articles indexed by its means and published annually is about 120,000. Many more are indexed but not published. There is some duplication amongst the ones published, and the total number of independent, classified articles is probably only 100,000 or so. This number represents only a fraction of the estimated total output of scientific and technical articles, but it is at any rate a good nucleus.

It would not be a costly matter to reproduce all the index references thus classified, upon a uniform basis in regard to the names of authors, titles, names and issues of periodicals and other bibliographical particulars. The classification is the element which takes time.

The next stage would be to see to what extent this output copes with the periodical literature, by arranging the journals indexed fully by each source according to the alphabetical list of the journals. It is necessary here to emphasize that only such journals should be first taken into account as are fully indexed by any source. It would be found that many periodicals were not indexed at all by any source, that many were fully indexed by some one source, that the majority were partially indexed by many sources. If any of the first category lay completely within the proper scope of one of the sources, that source should be asked to include it in its list for full indexing. The third category could be examined, to ascertain which journals in the aggregate were fully indexed from all specialist points of view. Any residual periodicals could be set aside for special action. This latter would consist in the allocation of each journal to a definite centre for the purpose of preparing preliminary index references, giving all bibliographical particulars according to the standard system, but only broadly classifying the references according to subject. The references would then be passed for detailed classification to the appropriate specialist centre.

In this way the organized survey of the world literature in science and technology could be made. Some central institution might exercise general control, take charge of those periodicals of general scope which could not be assigned to any one more specialized centre, and make itself responsible for the allocation of new periodicals to the respective centres and for unifying the bibliographical details. There would remain the problem of duplicating the several specialist indexes formed at each centre. The central control institution should receive a copy of each entry made, and should, if considered economically practicable, undertake the duplication of cumulated references on behalf of any subscriber.

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It would be the province of the specialist centres to amplify the indexes by the provision of abstracts, summaries, etc. Whether cooperation between national specialist centres to effect this further task is possible, must be left to the consideration of such centres.

"The organization of a world index as above outlined appears to be a necessary preliminary stage in the formation of an international network of documentation.

"The scheme involves the employment of a classification which as yet may not have attained sufficiently wide use for the index of the world's scientific literature to be made completely representative. But this could only be ascertained by further research.

"It is suggested that the matter be submitted to the International Institute of Documentation for its earnest and immediate consideration. It is evident from the papers and discussions at the various congresses of that Institute, that the matter has from time to time been considered; but it appears to have become involved in questions of the supply of information of a more advanced character, involving abstracts and summaries. Whilst this is undoubtedly the final stage to be visualized, it is strongly urged that the initial stage of a world index to scientific and technical literature is an essential preliminary, a worthy aim in itself, and one which prima facie appears to be practically realizable at an early date. This index would provide the skeleton upon which each specialist centre could build its own more detailed programme for the supply of more complete information. Whatever extra labour devolved upon each such centre in the initial preparation of its share of the index, would be amply counterbalanced by its receipt of the more obscure references from other centres, and the saving of time and labour effected by freeing its own staff from the present need to scrutinize a mass of mainly irrelevant literature.

"It is understood that the Science Museum Library, London, is prepared to undertake the indexing of the periodicals devoted to general science and technology, some 300 in all. The range of subjects covered by means of the Universal Decimal system is already very comprehensive, and includes most branches of science and technology. In the aggregate, these centres must scrutinize the major portion of the worthy scientific and technical periodicals of the world. Several of the institutions are provided with mechanism for reproduction of references on modern, cheap lines, including automatic selecting, cumulating and reproducing devices. Co-ordination and organization of these resources seems to be alone wanting to enable the index to be realized in the near future.

"If special librarians and information bureaux cannot agree among themselves to exchange mere classified references in connection with a scheme of the kind outlined above, it is indeed unlikely that they will cooperate on the more ambitious lines which are featured in certain projects for universal networks of documentation..."

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- SHERMAN, W. C., and ELVEHJEM, C. A. In vitro action of crystalline vitamin B₁ on pyruvic acid metabolism in tissues from polyneuritic chicks. *Amer. Jour. Physiol.* 117: 142-150. Sept. 1, 1936.
- TRUOG, E. Further work on the determination of the mineral content of soil colloids. *Amer. Soil Surv. Assoc. Bul.* 17(1935): 20. May 1936.
- WEHRWEIN, G. S. (With J. A. BAKER, Univ. Wis.) Relocation of non-conforming land users of the zoned counties in Wisconsin. *Jour. Land and Public Utility Economics* 12: 248-255. Aug. 1936.

ARTICLES BY STATE AGRICULTURAL EXPERIMENT STATION WORKERS

Wisconsin
(continued)

- WEHRWEIN, G. S. Wind erosion legislation in Texas and Kansas. Jour. Land and Public Utility Economics 12: 312-313. Aug. 1936.
WHITSON, A. R. Some soil conditions and associated factors likely to influence future land use. Amer. Soil Surv. Assoc. Bul. 17: 57-62. May 1936. Mimeographed.

Wyoming

- BURNS, R. H. The growth of skin area in sheep. Amer. Soc. Anim. Prod. Proc. 28(1935): 146-151. Jan. 1936.
HILL, J. A. Changes which will come in animal husbandry of the western states if planned utilization of land becomes a reality. Amer. Soc. Anim. Prod. Proc. 28(1935): 30-37. Jan. 1936.

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INTERNATIONAL FRUIT DICTIONARY

The Russian publication "Nauchnoe Plodovodstvo" (Scientific Fruit Growing), no. 5, 1935, contains on pages 82-83, an article entitled "Let us create an international fruit dictionary" by A. D. Borisoglebsky and A. S. Tatarintzeff. The English summary of the article reads as follows: "The authors of this article have undertaken the work of composing an English-German-French-Esperanto-Russian fruit growing dictionary. It is supposed to publish it in three separate issues including terms usually used in the orchard practice and partly terms on truck crops, ornamentals, apiculture, scientific terms, used in orcharding and plant breeding as well as in sciences closely related to them, plant names, insect pests and diseases. The materials are to be arranged in such a way that the dictionary might be used in translating from either of the enumerated languages into any other.

"Through their correspondence in Esperanto the authors have received valuable materials for the dictionary from a number of foreign countries. This article is a call on the readers of the "Scientific Fruit Growing" to the best of their ability to help in this work. They might be helpful in choosing and sending special terms in different languages, lending rare literature for temporary use, in particular, dictionaries, vocabularies, reference books, catalogues of horticultural establishments and of seed firms, etc.

"All correspondence should be sent to the authors addresses: (1) Mitchurinsk Voronezh District, Sovietskaja Street, 274. The Scientific Research Institute, Research Assistant A. D. Borisoglebsky; (2) Mitchurinsk, Voronezh District Square the 25th of October. The Institute of Fruit and Vegetable Cultures named after I. V. Mitchurin. Lecturer, A. S. Tatarintzeff."

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LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING SEPTEMBER 1936*

Alabama

- IVEY, J. E. Producing profitable pullets. (Ala. Poly. Inst. Ext. Circ. 151.) Auburn, 1936.
 BURNS, F. W. How to select, feed, and manage the dairy cow. (Ala. Poly. Inst. Ext. Circ. 152.) Auburn, 1936.

Arkansas

- BURLESON, D. J. 4-H club manual in corn production. (Ark. Agr. Col. Ext. Circ. 124, rev.) 524 Post Office Bldg., Little Rock, 1936.
 BURLESON, D. J. 4-H club manual in cotton production. (Ark. Agr. Col. Ext. Circ. 160, rev.) 524 Post Office Bldg., Little Rock, 1936.
 GREGG, V. L. Feeding dairy cows in winter. (Ark. Agr. Col. Ext. Circ. 179, rev.) 524 Post Office Bldg., Little Rock, 1936.
 NELSON, M. Lespedeza. (Ark. Agr. Col. Ext. Circ. 185, rev.) 524 Post Office Bldg., Little Rock, 1936.
 WOOLSEY, C. Hotbeds and cold frames. (Ark. Agr. Col. Ext. Circ. 189, rev.) 524 Post Office Bldg., Little Rock, 1936.
 WOOLSEY, C. Establishing the peach orchard. (Ark. Agr. Col. Ext. Circ. 191, rev.) 524 Post Office Bldg., Little Rock, 1936.
 NELSON, M., and BURLESON, D. J. Fertilizer recommendations for field crops. (Ark. Agr. Col. Ext. Circ. 214, rev.) 524 Post Office Bldg., Little Rock, 1936.
 WOOLSEY, C. Early tomato production in Arkansas. (Ark. Agr. Col. Ext. Circ. 223, rev.) 524 Post Office Bldg., Little Rock, 1936.
 WOOLSEY, C. Production and harvesting of watermelons in Arkansas. (Ark. Agr. Col. Ext. Circ. 225, rev.) 524 Post Office Bldg., Little Rock, 1936.
 FENTON, I. A. Refinishing furniture. (Ark. Agr. Col. Ext. Circ. 245, rev.) 524 Post Office Bldg., Little Rock, 1936.
 GREGG, V. L., and KARNs, E. E. Safety bull pen, its use and construction. (Ark. Agr. Col. Ext. Circ. 274, rev.) 524 Post Office Bldg., Little Rock, 1936.
 SMITH, R. M. Drying and storing fruits and vegetables in the home. (Ark. Agr. Col. Ext. Circ. 296, rev.) 524 Post Office Bldg., Little Rock, 1936.
 CARTER, D. G. Measurement and calculation of field areas. (Ark. Agr. Col. Ext. Circ. 325, rev.) 524 Post Office Bldg., Little Rock, 1936.
 NELSON, M. Permanent pastures. (Ark. Agr. Col. Ext. Circ. 334, rev.) 524 Post Office Bldg., Little Rock, 1936.
 WOOLSEY, C. Shrubs, their propagation and management. (Ark. Agr. Col. Ext. Circ. 345, rev.) 524 Post Office Bldg., Little Rock, 1936.
 Types of farming in Arkansas. (Ark. Agr. Col. Ext. Circ. 351.) 524 Post Office Bldg., Little Rock, 1936.
 BABER, L. G. Games and plays for 4-H clubs. (Ark. Agr. Col. Ext. Circ. 352.) 524 Post Office Bldg., Little Rock, 1936.
 BURLESON, D. J. Cotton improvement by standardizing varieties. (Ark. Agr. Col. Ext. Circ. 353.) 524 Post Office Bldg., Little Rock, 1936.
 SMITH, R. M., and CONANT, G. E. Bab's canning budget. (Ark. Agr. Col. Ext. Circ. 356.) 524 Post Office Bldg., Little Rock, 1936.

* Prepared in the Office of Experiment Stations Library.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING SEPTEMBER 1936.

Arkansas
(continued)

- CONANT, G. E. Food selection score card (for the average person over 6 years old.) (Ark. Agr. Col. Ext. Circ. 357.) 524 Post Office Bldg., Little Rock, 1936.
- BATES, S. D. Hand-made rugs. (Ark. Agr. Col. Ext. Circ. 358.) 524 Post Office Bldg., Little Rock, 1936.
- ISELY, D. Control of aphids or plant lice in gardens. (Ark. Agr. Col. Ext. Circ. 360.) 524 Post Office Bldg., Little Rock, 1936.
- GATES, A. D. Outlines of procedure for conducting organization meetings. (Ark. Agr. Col. Ext. Circ. 361.) 524 Post Office Bldg., Little Rock, 1936.
- SMITH, R. M. 4-H club manual in food preservation. Demonstration no. 1. (Ark. Agr. Col. Ext. Circ. 363.) 524 Post Office Bldg., Little Rock, 1936.
- SMITH, R. M. 4-H club manual in food preservation. Demonstration no. 2. (Ark. Agr. Col. Ext. Circ. 364.) 524 Post Office Bldg., Little Rock, 1936.
- SMITH, R. M. 4-H club manual in food preservation. Demonstration no. 3. (Ark. Agr. Col. Ext. Circ. 365.) 524 Post Office Bldg., Little Rock, 1936.
- SMITH, R. M. 4-H club manual in food preservation. Demonstration no. 4. (Ark. Agr. Col. Ext. Circ. 366.) 524 Post Office Bldg., Little Rock, 1936.
- CONANT, G. E. 4-H club manual in foods and cookery. Demonstration no. 1. (Ark. Agr. Col. Ext. Circ. 367.) 524 Post Office Bldg., Little Rock, 1936.
- CONANT, G. E. 4-H club manual in foods and cookery. Demonstration no. 2. (Ark. Agr. Col. Ext. Circ. 368.) 524 Post Office Bldg., Little Rock, 1936.
- CONANT, G. E. 4-H club manual in foods and cookery. Demonstration no. 3. (Ark. Agr. Col. Ext. Circ. 369.) 524 Post Office Bldg., Little Rock, 1936.
- CONANT, G. E. Preparation of staple foods for the table. (Ark. Agr. Col. Ext. Circ. 370.) 524 Post Office Bldg., Little Rock, 1936.
- CARTER, D. G., and KARNS, E. E. Farm sewage disposal. (Ark. Agr. Col. Ext. Circ. 371.) 524 Post Office Bldg., Little Rock, 1936.
- SMITH, R. M. Judging instructions in 4-H club canning. (Ark. Agr. Col. Ext. Circ. 372.) 524 Post Office Bldg., Little Rock, 1936.
- FENTON, I. A., and CONANT, G. E. 4-H club manual in household administration. Demonstration no. 1. (Ark. Agr. Col. Ext. Circ. 374.) 524 Post Office Bldg., Little Rock, 1936.
- FENTON, I. A., and CONANT, G. E. 4-H club manual in household administration. Demonstration no. 2. (Ark. Agr. Col. Ext. Circ. 375.) 524 Post Office Bldg., Little Rock, 1936.
- KNOX, G. W., jr. 4-H club manual in poultry. Demonstration no. 1. (Ark. Agr. Col. Ext. Circ. 376.) 524 Post Office Bldg., Little Rock, 1936.
- KNOX, G. W., jr. 4-H club manual in poultry. Demonstration no. 2. (Ark. Agr. Col. Ext. Circ. 377.) 524 Post Office Bldg., Little Rock, 1936.
- KNOX, G. W., jr. Selecting hens for egg production. (Ark. Agr. Col. Ext. Circ. 378.) 524 Post Office Bldg., Little Rock, 1936.
- CARTER, D. G., and KARNS, E. E. Cabinets and storage equipment for the farm home. (Ark. Agr. Col. Ext. Circ. 379.) 524 Post Office Bldg., Little Rock, 1936.
- WOOLSEY, C. 4-H club manual in growing early Irish potatoes. (Ark. Agr. Col. Ext. Circ. 380.) 524 Post Office Bldg., Little Rock, 1936.
- WOOLSEY, C., and HECKMAN, J. H. 4-H club manual in sweet potato production, handling, and marketing. (Ark. Agr. Col. Ext. Circ. 381.) 524 Post Office Bldg., Little Rock, 1936.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING SEPTEMBER 1936

Arkansas
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- GREGG, V. L. 4-H club manual in dairying. Demonstration no. 1. (Ark. Agr. Col. Ext. Circ. 382.) 524 Post Office Bldg., Little Rock, 1936.
- GREGG, V. L. 4-H club manual in dairying. Demonstration no. 2. (Ark. Agr. Col. Ext. Circ. 383.) 524 Post Office Bldg., Little Rock, 1936.
- GREGG, V. L. 4-H club manual in dairying. Demonstration no. 3. (Ark. Agr. Col. Ext. Circ. 384.) 524 Post Office Bldg., Little Rock, 1936.
- MULDROW, M. W. Swine production in Arkansas. (Ark. Agr. Col. Ext. Circ. 385.) Ark. Agr. Col. Ext. Circ. 385.) 524 Post Office Bldg., Little Rock, 1936.
- MULDROW, M. W. 4-H club manual in sheep. (Ark. Agr. Col. Ext. Circ. 386.) 524 Post Office Bldg., Little Rock, 1936.
- MULDROW, M. W. 4-H club manual in swine. (Ark. Agr. Col. Ext. Circ. 387.) 524 Post Office Bldg., Little Rock, 1936.
- MULDROW, M. W. 4-H club manual in beef cattle. (Ark. Agr. Col. Ext. Circ. 388.) 524 Post Office Bldg., Little Rock, 1936.
- MULDROW, M. W. Feeding horses and mules. (Ark. Agr. Col. Ext. Circ. 389.) 524 Post Office Bldg., Little Rock, 1936.
- GREGG, V. L., and KAPNS, E. E. The trench silo, its use and construction. (Ark. Agr. Col. Ext. Circ. 390.) 524 Post Office Bldg., Little Rock, 1936.

Colorado

- SMITH, C. A. Testing and handling milk and cream. (Colo. Agr. Col. Ext. Bul. 341-A.) Fort Collins, 1936.
- Taken largely from material prepared by G. E. Morton, former state Dairy Commissioner and his deputies ...
- DAVENPORT, E., and HYDE, B. E. Rug making. (Colo. Agr. Col. Ext. Bul. 344-A.) Fort Collins, 1936.
- DAWSON, D., and HYDE, B. E. Getting the most for your money, selection of ready-to-wear garments. (Colo. Agr. Col. Ext. Bul. 345-A.) Fort Collins, 1936.
- DAWSON, D., and HYDE, B. E. Clothing materials, cotton, linen, wool, rayon, silk. (Colo. Agr. Col. Ext. Bull. 346-A.) Fort Collins, 1936.
- MCCAMMON, R. Single-dish meals. (Colo. Agr. Col. Ext. Bul. 347-A.) Fort Collins, 1936.
- UFFORD, O. C. Care and marketing of Colorado eggs. (Colo. Agr. Col. Ext. Bul. 349-A.) Fort Collins, 1936.
- UFFORD, O. C. Baby chick management. (Colo. Agr. Col. Ext. Bull. 350-A.) Fort Collins, 1936.
- HENDERSON, G. R. Organized recreation and planned programs. (Colo. Agr. Col. Ext. Bul. 351-A.) Fort Collins, 1936.
- JONES, C. R., and MCCAMPBELL, S. C. Termites or white ants. (Colo. Agr. Col. Ext. Circ. 115-A.) Fort Collins, 1936.

Connecticut

- ROLLINS, H. A. Grafting fruit trees. (Conn. Agr. Col. Ext. Bull. 230.) Storrs, 1936.
- ROLLINS, H. A., and PECK, B. T. Connecticut apples from tree to consumer. (Conn. Agr. Col. Ext. Bul. 232.) Storrs, 1936.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING SEPTEMBER 1936
(continued)

Idaho

Midsummer livestock outlook, 1936 Idaho Univ. Agr. Ext. [unnumbered]
Boise, 1936.
Mimeographed.

Massachusetts

BISHOP, T. Protect your smile, a health goal for 4-H members of Massachusetts.
(Mass. State Col. Ext. Four-H Leaflet 23.) Amherst, 1935.
BISHOP, T. The smiling house, home service hints for 4-H girls. (Mass.
State Col. Ext. Junior Ext. Leaflet 24.) Amherst, 1936.

Minnesota

DENT, J. G. Welding farm equipment. (Minn. Univ. Agr. Ext. Agr. Engin.
News Letter 53.) University Farm, St. Paul, 1936.

Ohio

WINTER, A. R. Prevention and control of poultry diseases. (Ohio Agr.
Col. Ext. Bull. 115, rev.) Columbus, 1936.

South Carolina

HAMILTON, R. W., and PRICHARD, B. E. G. Corn production. (Clemson
Agr. Col., S. C., Ext. Circ. 89, rev.) Clemson, 1936.
PRICHARD, B. E. G. Lespedeza. (Clemson Agr. Col., S. C., Ext. Circ.
151.) Clemson, 1936.
PREVOST, E. S. The care of bees. (Clemson Agr. Col., S. C., Ext. Circ.
153.) Clemson, 1936.
WATKINS, D. W. Extension work in South Carolina, 1935. Clemson Agr.
Col., S. C., Ext. [unnumbered] Clemson [1936]

Tennessee

MARCOVITCH, S. Control of insect enemies of melons, cucumbers and squash.
(Tenn. Univ. Agr. Ext. Pub. 115, rev.) Knoxville, 1936.
MCSPADDEN, B. J., and CHADWELL, A. J. The Tennessee poultry house.
(Tenn. Univ. Agr. Ext. Pub. 132, rev.) Knoxville, 1936.
HENDRICKS, H. E. Lime and prosperity on the farm. (Tenn. Univ. Agr.
Ext. Pub. 133, rev.) Knoxville, 1936.
BELTON, W. C. Farm gardens. (Tenn. Univ. Agr. Ext. Pub. 145, rev.)
Knoxville, 1936.
A farm and home program for Tennessee. (Tenn. Univ., Agr. Ext. Pub. 179,
rev.) Knoxville, 1936.
BELTON, W. C. Sprays for fruit trees. (Tenn. Univ. Agr. Ext. Pub. 184,
rev.) Knoxville, 1936.
MCLEOD, J. H., and HOLMES, H. C. A planned farm program. (Tenn. Univ.
Agr. Ext. Pub. 187, rev.) Knoxville, 1936.
MARTIN, G. E. Running water in the farm home. (Tenn. Univ. Agr. Ext.
Pub. 190.) Knoxville, 1936.

LIST OF STATE EXTENSION PUBLICATIONS RECEIVED DURING SEPTEMBER 1936

Tennessee
(continued)

- FELTON, W. C. Raspberries, blackberries, dewberries in the farm garden. (Tenn. Univ. Agr. Ext. Pub. 191.) Knoxville, 1936.
- PEACOCK, N. D., and STRAND, A. B. Planning and care of the farm garden. (Tenn. Univ. Agr. Ext. Pub. 192.) Knoxville, 1936.
- TOBEY, G. N. Easy ways of making cottage cheese in the home. (Tenn. Univ. Agr. Ext. Pub. 193.) Knoxville, 1936.
- AMBROSE, M. A. Hand book for members of negro girls' home demonstration clubs in Tennessee program of work. (Tenn. Univ. Agr. Ext. Pub. 194.) Knoxville, 1936.
- HERRINGTON, G. L. 4-H club crop judging. (Tenn. Univ. Agr. Ext. Pub. 195.) Knoxville, 1936.

Texas

- EUDALY, E. R. Feeding and care of the dairy herd. (Texas Agr. Col. Ext. [Bul.] B-69 [Rev.]) College Station, [1936.]
- ROSBOROUGH, J. F. Home orchards. (Texas Agr. Col. Ext. [Bul.] B-73 [rev.]) College Station, 1936.
- EUDALY, E. R., and BENTLEY, M. R. Trench silos. (Texas Agr. Col. Ext. [Bul.] B-84 [rev.]) College Station, 1936.
- NEELY, G. I. Canning fruits and vegetables. (Texas Agr. Col. Ext. [Bul.] B-85 [rev.]) College Station, 1936.
- Boys' 4-H club leaders' handbook. (Texas Agr. Col. Ext. [Bul.] B-89.) College Station, 1936.
- BARRY, M. W. An organization manual for county home demonstration councils. (Texas Agr. Col. Ext. [Bul.] B-90, rev.) College Station, 1936.
- EUDALY, E. R. Dairy club manual for county agents and boys' 4-H club leaders. (Texas Agr. Col. Ext. [Bull.] B-91.) College Station, 1936.
- BENTLEY, M. R., and ROSBOROUGH, J. F. Subirrigation for gardens. (Texas Agr. Col. Ext. [Bull.] B-92.) College Station, 1936.
- HOLMGREEN, E. N., and MCCARTHY, G. P. Culling hens. (Texas Agr. Col. Ext. [Circ.] C-52 [rev.]) College Station, 1936.
- EUDALY, E. R. Judging dairy cows. (Texas Agr. Col. Ext. [Circ.] C-66 (rev.)) College Station, 1936.
- HOLMGREEN, E. N., and MCCARTHY, G. P. Common worms of poultry. (Texas Agr. Col. Ext. [Circ.] C-69 [rev.]) College Station, 1936.
- BARNES, D. R. Places for keeping clothing. (Texas Agr. Col. Ext. [Circ.] C-72 [rev.]) College Station, 1936.
- REPPERT, R. R. Irish potato production. (Texas Agr. Col. Ext. [Circ.] C-85 [rev.]) College Station, 1936.
- REGENBRECHT, E. M. Selecting hogs. (Texas Agr. Col. Ext. [Circ.] C-106.) College Station, 1936.
- CUNNINGHAM, M. F. "Get the story". (Texas Agr. Col. Ext. [Circ.] C-107.) College Station, 1936.
- NEELY, G. I. Canning budget. (Texas Agr. Col. Ext. [Circ.] C-108.) College Station, [1936]

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NOTES ON PERIODICALS

- Agronomía. Centro de estudiantes de agronomía, La Molina, Lima, Peru. mo. 8^o.
il. Ano. 1, no. 1, July 1936. No price given.
- American architect. New York. With vol. 148, no. 2646, June 1936, absorbed
Architecture and changed name to American architect and architecture.
- Banco nacional de Nicaragua, inc. Revista. Managua, Nicaragua. bi-mo. 4^o.
v. 1, num. 1, July/Aug. 1936. Free.
- Cinema; quindicinale di divulgazione cinematografica. Libreria Hoepli in
Milano (via Berchet) e Roma (Largo Chigi) L'Ufficio Periodici Hoepli in
Roma, corso Vittorio Emanuele 21. fortnightly. f^o. il. Anno 1, v. 1,
fasc. 1, July 10, 1936. Abbonamenti: Italia, Impero, Colonie e Possedi-
menti: an anno: lire 40; sei mesi: lire 22 - Estero: un anno: lire 60;
sei mesi: lire 35.
- Cranberries; the national cranberry magazine. Wareham, Courier office, Ware-
ham, Mass. mo. 4^o. il. May 1936. \$2.00 a year; 20 cents a copy.
- Dairy industries incorporating ice cream manufacture. Dairy publishing company,
Regent House, 89 Kingsway, London, W. C. 2. mo. f^o. il. Aug. 1936.
Annual subscription, 10/- postage free; single copies, 1/-.
- Enzymologia. W. Junk, Publisher. The Hague, Holland. il. diags. 4^o. v. 1,
fasc. 1, June 30, 1936. 15 Dutch florins a volume.
- Mechanised farming. Lombard Publications Ltd., Thanet House, 231 Strand, London,
W. C. 2. quar. 4^o. v. 1, no. 1, Spring 1936. Yearly subscription 5/-.
- Nyasaland tea association. Quarterly journal. P. O. Box no. 3, Cholo, Nyasa-
land. Quar. 8^o. v. 1, no. 1, June 1936. No price given.
- Western Canada outdoors. The Institute of applied art, ltd., 10042 - 109th
St., Edmonton, Alberta. mo. f^o. il. v. 1, no. 1, Feb. 1936. \$1.00 a year;
single copies, 10 cents.
- Western irrigation. San Francisco, Calif. Changed to New agriculture with
v. 18, no. 11, Aug. 1936.

The Botanical Section of the International Union of Biological Sciences has been deputed to act as the connecting link between successive international botanical congresses. At present it consists of several commissions, one of which is the International Commission for Documentation. This is being organized by Dr. Susan H. Wellensiek, Buitenzorg, Java, who presented a paper at the 6th International Botanical Congress held at Amsterdam in September, 1935, on the improvement of the publishing of botanical work. A summary of Dr. Wellensiek's proposals was issued in Agricultural Library Notes, vol. 10, no. 10, p. 431. Under this commission there is a Committee for an Index of Plant Science Periodicals. On behalf of the Committee, Mr. Th. P. Loosjes, Librarian of the Botanical Institute, Leiden, is compiling a list of Current Plant Science Periodicals, which he states is soon to be published.

A "List of Periodicals currently received in the Library of the U. S. Department of Agriculture" is now in press and will be issued as Miscellaneous Publication No. 245 of the Department.

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SELECTED LIST OF MICROGRAPHED PUBLICATIONS
of the U. S. Department of Agriculture
received during September, 1936, exclusive of Bibliographies*
and current issues of serials.**

Office of the Secretary

- Agricultural preparedness and the drought. Address of Secretary of agriculture, Henry A. Wallace, before the International baby chick association, at Kansas City, Mo. July 22, 1936. 15 p.
- Common aims in agriculture. Address by Secretary of agriculture, Henry A. Wallace, before a gathering of negro leaders and farmers at Tuskegee Institute, Tuskegee, Ala., Sept. 10, 1936. 13 p.
- Education for democracy. Address by M. L. Wilson before the American country life association, Aug. 11, 1936. 15 p.
- The farmer and the general welfare. Remarks by Henry A. Wallace at the 6th annual forum on current problems, under the auspices of the New York Herald-Tribune, New York City, Sept. 25, 1936. 7 p.
- The impact of technology. Remarks by Henry A. Wallace at the Centennial celebration of the city of Council Bluffs, Iowa, Aug. 11, 1936. 13 p.
- The issue before dairymen. Address of Henry A. Wallace at the Neat Farm Contest meeting of the Chicago pure milk association at Aurora, Ill., Sept. 29, 1936. 21 p.
- The Joseph idea, the drought, and the American consumer. Remarks by Henry A. Wallace at the Great Lakes exposition, Cleveland, Ohio. Aug. 19, 1936. 15 p.
- Northeast agriculture and the national welfare. Address of Secretary Henry A. Wallace at Oneida county fair at Boonville, New York, Aug. 7, 1936. 18 p.
- A record of progress, 1932-1935. (Part of a talk made by Secretary of Agriculture, Henry A. Wallace, in Beatrice, Nebraska, Oct. 1, 1936) 8 p.

Bureau of Agricultural Economics

- County planning and zoning; lists of enabling acts and commissions. By C. I. Hendrickson. June 1936. 30 p. (Issued by Division of Land economics.)
- Farm production and income from meat animals. 1924-1935. By states. Washington, Sept. 1936. 135 p.
- Farm value, gross income and cash income from farm production. 1934-1935. By states and commodities. Washington, August 1936. 100 p.

* Bibliographies included in general list of bibliographies on page 492.

** For a list of the principal series issued regularly, see v. 9, no. 10, p. 354.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Bureau of Agricultural Economics (Continued)

- Hay seed revisions, acreage, yield and production, crop years, 1919-1935.
Washington, September 1936. 13 p. (Issued by Crop reporting board)
- Income from farm production in the United States in 1935. Sept. 1936. 24 p.
- Planted acreage. Crop years 1929-1935. By states. August 1936. 8 p.
- Preparation of Burley tobacco for market. By Hugh W. Taylor. Sept. 1936. 7 p.
- Relation of changes in meat production and consumption to changes in farm income from livestock in the United States. By Preston Richards, Senior agricultural economist. Paper for the International conference of agricultural economists in Scotland. Aug. 30 - Sept. 6, 1936. 4 p.
- Research in progress in the Bureau of agricultural economics, July 1, 1936.
Prepared for use of Research workers in the Bureau of agricultural economics, the State agricultural colleges and experiment stations, and other research agencies in agricultural economics. July 1936. 92 p.
- Sampling American cotton. Prevailing practices and some factors affecting representativeness of samples. By Sam W. Martin and Florena Cleaves. August, 1936. 37 p. (Issued by Division of Cotton marketing)

Bureau of Biological Survey

- Facts about our fauna. Radio address, Sept. 4, 1936, by Howard Zahniser, 4 p.

Bureau of Dairy Industry

- Outline of dairy cattle demonstration. 1936. 6 p. (BDIM-729)
- Record book for secretary-treasurer of cooperative dairy bull association. 33 p. (BDIM-1-33)
- Recording the identity and production performance of all animals in dairy-herd-improvement associations. By J. F. Kendrick, Division of Dairy-herd-improvement investigations. July 1936. (BDIM-720)
- Toxic effect of cod liver oil in the ration of the rabbit and the calf.
By W. A. Turner, E. B. Meigs, and H. T. Converse. 1936. 5 p. Read at the meeting of biological chemists, Washington, D. C., March 25-28, 1936.

Extension Service

- Selected food budget tables. Compiled from publications of the Bureau of Home Economics, U. S. Department of Agriculture, 14 p.
- 4-H girls plan clothing budgets. 4-H team demonstration (Conference of the Associated Country Women of the World). 11 p.

SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS

Extension Service
(continued)

Foods and nutrition subject matter of interest to homemakers with young children. By Mirian Birdseye, Division of cooperative extension, 3 p.

List of illustrative material on foods, nutrition, and posture, originating in the United States Department of Agriculture. Compiled by Mirian Birdseye, Extension Nutritionist. 7 p. (Issued by Division of cooperative extension).

Film strips of the United States Department of Agriculture. Price List, 1936-37. (Issued by Division of cooperative extension) 8 p.

4-H club work. By Beulah Rodgers. 7 p.

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CONTRIBUTIONS TO CITIZENSHIP BY MODERN LANGUAGE COURSES
IN SCIENTIFIC LITERATURE

By C. H. Brannon,
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[Editorial note: The following extracts are taken from an article with the title above which appeared in the Modern Language Journal for February 1936, vol. 20, no. 5, p. 259-264. It is reprinted here (1) because of its interest to scientific workers and (2) because the journal in which the original appeared may not have come to the attention of many readers of Agricultural Library Notes. It is regretted that the article could not be included in full.]

"Personally I have no doubt of the vast contributions of courses in scientific literature to good citizenship. We hear a great deal about this being a scientific age, and we are all aware of the manifold contributions of scientific research. One who now selects a scientific career faces enormous competition, and must have as thorough a training as can be obtained. Unless proper consideration is given to courses in scientific literature the handicap will be most embarrassing sooner or later. This is especially important in German, with its peculiar scientific construction and enormous amount of scientific literature... Scientific French is no different from other French except for the technical vocabulary which must be acquired in one's special field. I would not minimize the importance of the scientific literature of other modern foreign languages, but at present most courses in scientific literature are limited to French and German.

"A fundamental prerequisite of all research is a thorough knowledge of the literature published in one's own and related fields. If one is not intimately conversant with the foreign literature on the subject, much duplication and waste of time is usually the result. Where no actual duplication occurs the lack of knowledge of the results obtained by foreign workers hinders international co-operation and causes a loss of helpful contacts which would greatly facilitate research.

"Those who depend upon the translations of others are almost helpless. In the field of biology we have a publication, entitled 'Biological Abstracts', which attempts to abstract in English the results of biological research from all over the world. However, these abstracts are usually limited to a few sentences. Satisfactory translations are difficult to obtain and are frequently misleading or actually worthless unless translated by one who has both a thorough knowledge of the foreign idiom and an intimate understanding of the subject under discussion.

"Unfortunately many scientific folk in this country are noticeably weak in the mother-tongue and cannot draw up a paper in clear, concise, and well-chosen English. Our deficiency in foreign language training is almost traditional. In our eagerness for subject-matter in our preferred fields we have neglected the great medium of expression. A real scientific language course will do a great deal toward helping the future scientist master clear, concise, and correct presentation in his own tongue, in addition to the benefits of reading a foreign language.

"Someone has said that the great international scientific societies, which include kindred spirits from many lands, have done as much as any other lay organization for international peace and good-will. Scholarly folk who mingle and discuss problems of common interest in the realm of science do not

CONTRIBUTIONS TO CITIZENSHIP BY MODERN LANGUAGE COURSES
IN SCIENTIFIC LITERATURE
(continued)

relish war among nations. One of the most pitiful effects of the world war was the attempt of workers in common fields of research of the various belligerent countries to maintain their former co-operation and friendship in spite of war and political upheaval.

"It seems to me that courses in scientific literature are often the first step in the understanding and appreciation of other people, for we can have no genuine feeling for others unless we know something of what they think and say. This may lead to an enduring interest which will seek fruition in a broad cultural knowledge of other civilizations...

"French men of science have made a remarkable contribution to the advancement of science. Many have also enhanced the glory of French literature. Buffon's great and monumental work in forty-four volumes, his 'Histoire Naturelle', is a literary masterpiece as well as an epitome of the knowledge of his time... The study of the lives and works of the great French scholars of science is most inspiring. Laplace, the Newton of France, is noted for his mathematical and astronomical research, which placed him in the very first rank among men of science the world over... Other great French scientists are Cuvier, Lavoisier, Lamarck, Pascal, Fabre, Pasteur, Mme. Curie and others too numerous to mention here. These geniuses represent citizenship of the highest order. Sincere scientists ardently seeking the truth have become distinguished citizens in all civilized countries and Western culture owes much to their contributions.

"German men of science have been very active in the most careful research. We need but mention such illustrious names as Gauss, von Haller, Bunsen, Kirchhoff, Mendel, Zollner, Ohm, Sachs, Humboldt, Wöhler, Liebig, Helmholtz, Weismann, Schleiden, Johannes Müller, Goethe, Koch, Wassermann, and Einstein. Mendel, an Austrian monk, founded the science of genetics... Humboldt wrote both in French and in German but his greatest work, the 'Kosmos', was written in German. It is a survey of the whole realm of science.

"Courses in scientific literature are excellent means of mental training in the critical scientific spirit and aid in developing precision and accuracy. In correct translation and interpretation there is no place for loose thinking and poor preparation. It requires sustained concentration of a kind that the student can scarcely get in any other way. 'The literature that we have in mind when we use the term "belles-lettres" does not require the reader, as a rule, to go beyond the covers of the volume in hand. Scientific literature calls for a greater, or at least for a different kind of activity upon the part of the reader, coupled with a more critical state of mind and involves constant reference to other sources of information - and may well lead to investigation at first hand. In reading a work of imaginative literature we do well to give ourselves up to the author unreservedly. In reading the literature of science we ask that the author give himself up to us and we reserve our judgment at every step.'*

"There is a spirit of international co-operation and inquiry abroad today that is becoming more real and intensive every year. Rapid means of transportation and international contacts are drawing the world closer together. The spirit of self-satisfied isolation is almost a thing of the

*Kip.

CONTRIBUTIONS TO CITIZENSHIP BY MODERN LANGUAGE COURSES
IN SCIENTIFIC LITERATURE
(continued)

past except in the halls of Congress. The technical and scientific student who does not adjust himself to the new age will find that his horizons are far too limited for present demands. Also in my humble opinion there will be an ever-increasing correlation between language training and proficiency in any field of knowledge.

"How many colleges and universities are offering stimulating courses in scientific literature? Certainly no modern language department can possibly meet the needs of the times without giving students the opportunity for a foundation at least in scientific German and scientific French. Students who are given independent reading to do in their own fields, in addition to classroom work, receive help through conferences with the instructor, which gives them valuable information about the subject and invaluable instruction in the language concerned. These individual conferences are very popular with earnest students.

"America needs a scientific literature that can be enjoyed per se as well as for the information contained therein. Most papers appearing in our scientific journals are absolutely lacking in any literary flavor whatever... Scientific French is noted for its literary polish and scientific German for its lucid and succinct style...

"Probably one of the greatest hindrances to courses in scientific literature is the lack of a fundamental knowledge of the subject-matter by the instructor. This results in awkward terminology and faulty interpretation. If the student has a fair knowledge of the correct interpretation it will greatly help, but when neither student nor instructor has any knowledge of the subject under discussion the translation is likely to be worthless. A thorough knowledge of the fundamentals of grammar by the student is, of course, necessary, though often conspicuous by its absence.

"Most courses in scientific literature aim at a reading knowledge of the language, which usually results in a translating acquaintance sufficient only to pass examinations for an advanced degree. Many of these so-called examinations are nothing but a farce, allowing students to go forth with the doctorate with almost no language training.

"Translation is often a disagreeable task, and most students do not continue reading long enough to get the real meaning in the original. Unless interest is sufficient to carry one beyond this elementary stage, a true appreciation and enjoyment of the language or the paper perused, cannot be obtained. Translations are poor paraphrases at best and it is to be regretted that the great majority of scientific folk never get beyond the stage of translation. Reading in the original without translation leads to broader study and often to a generous appreciation of the culture concerned. Science students are usually hard pressed by their curriculum and have little or no time for purely literary pursuits in their own tongue, not to mention a foreign language. The necessity for immediate graduate work and hasty publication, which frequently governs advancement, largely precludes much insight into a foreign tongue except through scientific literature.

"By good citizenship we do not mean narrow provincialism and radical patriotism. Certainly in this era good citizenship consists of tolerance, appreciation and understanding, not only of one's own fellows, but of the fellowship of all people, of whatever nationality. Scientists who are not so

CONTRIBUTIONS TO CITIZENSHIP BY MODERN LANGUAGE COURSES
IN SCIENTIFIC LITERATURE
(continued)

fortunate as to obtain first-hand knowledge of distant colleagues and cultures through foreign travel and residence find scientific language courses of inestimable value. One cannot properly evaluate his own field of knowledge and civilization without the perspective of international contacts of some sort. Any course of study which enables one to become more efficient in his pursuit of knowledge and more cultured in his interests enhances the quality of his citizenship..."

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Imperial Bureau of Soil Science.


Technical communication. no. 23-33 (1932-1935). Bound.

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TRANSLATION WORK AT NORTH CAROLINA STATE COLLEGE

By Dr. L. E. Hinkle,
Professor, Department of Modern Languages,
North Carolina State College

In the March, 1936, issue of Agricultural Library Notes it was our privilege to have published an article entitled "Scientific Translation Projects at North Carolina State College". In this article we outlined in a brief fashion what we had accomplished here, in this respect, in the past and called attention to the fact that we were proposing a larger service in the future. The present article is written for the purpose of giving an idea of what we have done since that time and what we further propose to accomplish.

During the past year we were fortunate in securing an additional man for the department whose duties consist solely of the supervising of translation work. Unfortunately the financial state of the college was not such as to permit his employment for full time. This, however, we hope to remedy in the near future. The name of this new man is Mr. I. O. Garodnick, and his technical position is that of a teaching fellow. Mr. Garodnick has a very good knowledge of the three languages which are taught here, namely, French, German, and Spanish and is familiar with the technique and procedure which we follow in our translation work.

At the present time he is engaged in revising and standardizing the thirty or more completed translations which have been accepted for binding and placed in our college library. We are attempting to set up a standard form for such translations so that they will all be uniform, as far as possible, in appearance and also in the kind of data they contain, other than that of the translated contents. For example, we have a standard form of title which consists of two pages. On the first page is the original title, the author, date of publication and the publisher, along with the name of the translator and that of the person under whose direction the translation was made. The second page contains the exact translation of the title page but omits the statement relative to the translator. If a bibliography is given in the original, it is appended to the translation. Whenever possible we endeavor to bind in the same volume the original article along with the translation.

Formal instruction is given in classwork on the problem of translation, in which emphasis is placed on the differences between translation and the transliteration and insistence placed upon the observance of the former. The students are admonished to render the thought of the original in translation rather than the form. They are also told of the necessity of accurate scientific terminology and for this purpose they are requested to consult specialists who are familiar with the technical terminology and forms of expression in the subject of their specific translation. Students

TRANSLATION WORK AT NORTH CAROLINA STATE COLLEGE
(continued)

are encouraged to select for translation projects, articles dealing with a subject of their major interest and in order to insure their worthwhileness this selection is made in conjunction with the students' advisor and the one under whom the translation project is to be done.

In order to facilitate this work we recently sent a letter to all of our teachers and experiment station workers requesting them to cooperate with the students, in this respect, in every way possible and also to send us copies of material which in their judgment would be suitable and worthwhile for translation. The response to this letter has been very cordial and the degree of cooperation has been even more than we expected.

In addition to this we have communicated with several colleges and universities in order to learn, if possible, any new methods of procedure along this same line of endeavor. So far our responses to this letter have not been very satisfactory. It seems that very few educational institutions are doing anything at all in such work. We have also written to a great many experiment stations abroad for bulletins, periodicals and magazines and also for information as to what may be in progress along this line in other countries. So far our responses have been rather meager but this we feel is due to time and will be remedied in the future.

At the present time we have approximately twenty projects in process of translation. During the past summer five were completed and are now ready for binding. Just how many of these twenty which are being worked upon at the present time will ultimately find their way to the binder's hands we can not say, since those which do not meet our requirements are not accepted. It might be well here to mention the fact that such translation work demands a great deal of time and effort on the part of the student since he usually has to submit his proposed translation to three readings and corrections before it is put in final form ready for binding. When it has obtained this form then three copies of it are made, one for our library here, one for deposit in the library of the Department of Agriculture and the other one for filing in our office. Students who are successful with this work have a right to feel a just pride in their accomplishments.

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The importance of agriculture to the life of a nation is gradually being realised. Research Stations have been set up in many places for the improvement of crops and stock, for the study of their diseases and culture, for the introduction of exotic varieties, and for perfecting the methods of storage, transport and utilisation of the products. Every branch of science is being exploited in this intense research. But, as yet, one aspect of it has remained comparatively undeveloped, and its potentialities unappreciated.

As Dr. Johnson said once "Knowledge is of two kinds. We know a subject ourselves, or we know where we can find information upon it." Knowledge is based on experience, either of ourselves or of others. In Science, the records of experience are made, for the most part, in the form of articles contributed to periodicals. Today, these records are being written at such a rate, some three quarters of a million times in a year, that we do not know where to find those of interest to us. Such records do not constitute a part of our knowledge. To prevent this waste of good material; we need a complete index to the chronicles of discoveries and observations past and present, for lack of which, the progress of science is being hampered to a greater extent than has been imagined. The compilation of such an index will increase our knowledge a hundred percent.

The reader will not suppose that the necessity for indexing scientific periodical literature has escaped attention hitherto. Many publications exist which include references to current articles on the different branches of science, large and small. Usually, however, more attention is given to reviewing a selection of articles as they appear, than to indexing the whole, so that all those relating to a particular topic can be found, irrespective of date. Coordination between the various abstracting services is lacking, articles are indexed in one bibliography that would be of interest to users of bibliographies devoted to other subjects. Multiplicity of style prevents the amalgamation of the references. And the method of searching the whole mass of fifteen thousand current scientific periodicals, to pick out articles, within the scope of each particular bibliography, makes it impracticable to index the whole literature of any subject.

To bring order out of this chaos, we need to recognize the essential unity of science. The watertight divisions, which separated the various sections of scientific knowledge, have been broken down long since. Now, an observation, recorded by a specialist in any restricted field, may turn out to be of greatest importance to a worker in almost any other field. It follows that the literature of a particular subject is not confined to those few periodicals especially devoted to that subject, or to the major science of which it forms a part. Relevant papers are scattered throughout all scientific periodicals, more or less in proportion to the relation of the scope of the journals to the topic in question. As this relationship becomes more remote, so the rate of publication of relevant articles in any periodical becomes fewer, diminishing to the rate of one in ten years or less. But, just as this rate of

* Prepared for Agricultural Library Notes. See also Agricultural Library Notes, August, 1936, p. 429-433.

publication decreases, so the number of periodicals increases. In the result, the total number of scattered articles is as great, or greater than, that of those collected in the periodicals devoted to the subject in question. For example, anyone interested in the electrical conductivity of soils will find essential information scattered through publications devoted to general science, physics, chemistry, geology, agriculture, electrical engineering, telegraphy, telephony, radio-communication, etc. Instances of this interlocking of the sciences could be multiplied to any extent and will occur to every reader.

Thus, the method of scrutinising the whole mass of scientific periodical literature, again and again, from the point of view of each special bibliography, leads, not merely to great waste of energy, but, also, to overlooking half the literature of the subject. The remedy is to index every paper of value in every periodical; using a standard system of classification, so that the references can be amalgamated into a central index, where all the references to a particular subject are brought together by the classification. These facts are easy to grasp. Hitherto, they have escaped attention, because the problem of bibliography has not been considered as a whole.

The current method, of indexing articles from the point of view of subject rather than of source, is due partly to the manner in which bibliographies have originated, and partly to the natural, but mistaken, idea that good bibliographies can be prepared only by those who have specialised in their subject-matter. It is contended, and with truth, that no-one but a specialist is able to recognise all the papers that may be of interest from a particular standpoint; only the man who is working at a subject knows which papers will be of use to him; and abstracting needs detailed practical knowledge of the subject abstracted. The last contention is, of course, irrelevant, since we are dealing with indexing. Of the first two points, the former does not imply that every specialist must do his own indexing. As a specialist knows the ramifications of his special subject, he will know in what type of papers to seek the information he requires. He needs, merely, that every paper shall be indexed in such a way as to make its detailed contents accessible. Similarly, as regards the second contention, only the specialist is able to select, from a complete list of all the papers on a given subject, just those he really needs. But, he does not have to make the list himself.

However, this prejudice is beginning to disappear already. As a rule, bibliographies are not prepared by specialists themselves, but, by more or less qualified persons working in association with them. These provide the bibliographies and the specialists choose their material.

Moreover, bibliographers accept the help of others, who are not specialists in their subjects, when they utilise bibliographies on other subjects to gather articles from periodicals, which they find it impracticable to scrutinise themselves. References to abstracts on one subject are taken from bibliographies devoted to other subjects, for the reason that their editors review a different set of periodicals. It should be realised, however, that the articles on the first subject are included, only because they

THE CENTRAL AGRICULTURAL AND SCIENTIFIC BIBLIOGRAPHY
(continued)

are of interest from a second point of view. Any articles on the first subject, that may not have interest from the second point of view, are not noticed in bibliographies devoted to the second subject. Thus, this method does not secure all the articles on a given subject.

If, however, the essential principle be conceded, that properly trained scientific persons may contribute usefully to the bibliography of subjects, of which they have a general, but not a special, knowledge, it becomes a simple matter to organise a complete index to scientific literature.

We have merely to index every paper of importance in every journal and use a standard classification for purposes of cooperation. It will be necessary to arrange that periodicals devoted to each particular branch of science shall be dealt with completely by abstracting agencies concerned with that science. If any papers occur, in these publications, that are not within the proper scope of such agencies, they should not be abstracted, but, the titles of these papers should be classified and sent to a clearing house for re-distribution to the abstracting bodies indicated. Periodicals, dealing with two or more subjects, should be dealt with by that agency which abstracts the majority of papers they contain, the remainder being catalogued and classified and sent to the clearing house. There remain the general periodicals which deal with most branches of science. No special abstracting body would undertake to deal completely with these.

The Science Library is making a contribution to this scheme by cataloguing and classifying every original article in a selection of about one hundred and fifty of the most important of these scientific periodicals of general scope. These titles are issued as the "Weekly Bibliography of Pure and Applied Science". When all the original articles have been classified, it will be a simple matter for each special abstracting bureau to select for abstracting all the papers coming within its particular scope. The labour of searching all the periodicals themselves by each bureau will be eliminated, and, at the same time, it will be ensured that no articles are overlooked.

The preliminary classification of the titles need not be detailed, but it should indicate every main subject of a paper. The complete classification should be done by the abstracting body which specialises in the subject of the paper. It is now universally recognised that the only existing classification, suitable for use in indexing the whole of scientific literature, is the Universal Decimal Classification, organised by the International Institute of Documentation. Some 60 abstracting and indexing publications now use this system. Consequently, it is possible to cut up, mount and file together all the classified references in these publications, which thus contribute towards a complete index to scientific literature. The use of the standard classification serves also to collect together references, regarding a particular topic, even from the most unlikely abstracting journals. Thus material is brought to light, that would certainly be missed by other methods.

The Central Agricultural and Scientific Bibliography in the Science Library has been organised on this principle. All abstracts and references classified by the Decimal Classification irrespective of source are filed in

THE CENTRAL AGRICULTURAL AND SCIENTIFIC BIBLIOGRAPHY
(continued)

a repertory of nearly two and a half million cards, which is increasing at the rate of about 140,000 references a year. To this mass of bibliographical material are contributed also classified references prepared by the specialist staffs of a number of large industrial firms, both at home and abroad. In addition, every known periodical, which records references to the literature of science and technology is received in the Library. The total number of different papers referred to in the references collected in the Library amounts to about 280,000 annually. The total number of references to three quarters of a million in the same period. The remainder of the periodicals, which are not classified by the standard system, are arranged in book-cases round the catalogue room, where each part of each publication must be kept by itself and searched separately, as required, for each inquiry. The Library has access to a complete classified catalogue of the Patent Specifications of all nations and is in touch with specialised sources of information throughout the world.

A bibliography cannot be made or used, without the literature itself. The Science Library aims at making as complete as possible a collection of the scientific literature of all countries, especially that of a periodical nature, of which it contains already more than ten thousand current items. By acquiring a comprehensive collection of books and periodicals on all subjects, the Library is in a position to help specialists in any subject and, by means of its indexes and collection of references, it is able to direct inquirers to the volumes which contain the information, of which they are in search.

The Library is administered by a highly trained scientific staff, who undertake to search the bibliographical material, in connection with the actual literature, and to prepare, in answer to inquiry, authoritative and comprehensive lists of references to articles and documents relating to subjects of sufficiently restricted scope.

A single example of the value of this information service may be mentioned. An inquiry was received from a colonial plant pathologist, who had diagnosed a pest, which was decimating the coffee crops, as the coffee bean borer beetle. A Reference to a fungus parasite was discovered and a photostat copy of the article sent to the inquirer. Subsequently the production of coffee in this colony exceeded the demand.


The value of the material accumulated in the Science Library was appreciated by the organisers of the Central Agricultural and Scientific Bibliography, who are raising funds to supply necessary additional trained staff, with special agricultural qualifications, for the development of this side of the work. The Library will work in cooperation with existing bureaux in all countries and it is not expected that inquiries will be received, which fall within the proper scope of specialist institutions. The functions of the Bibliography are (1) to promote cooperation between these institutions, (2) to prepare bibliographies in answer to the increasing number of inquiries, which involve several aspects, and do not fall exactly within the scope of any specialised organisation, and (3) to organise a complete index to agricultural and scientific literature on the lines indicated above.

THE CENTRAL AGRICULTURAL AND SCIENTIFIC BIBLIOGRAPHY
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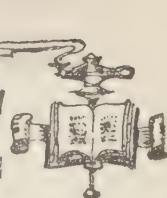
The facilities available under this scheme, which covers every branch of agriculture, include:

- (1) Reference to the books and periodicals in the Library
- (2) The use of the comprehensive collection of indexes and bibliographical material in the Library
- (3) Reference to other specialised sources of information in this country and abroad
- (4) Preparation of lists of papers and publications on restricted subjects of inquiry, free of charge within the British Empire. To other inquirers, a charge is made of 2d. a reference, with a minimum total charge of 5s. Od.
- (5) The supply of photostat copies of articles, diagrams, etc., on prepayment
- (6) Translations and digests can be secured from fully qualified persons on a panel at reasonable cost
- (7) Loan of books and periodicals in the Library to members of approved scientific institutions and to subscribers to the Central Bibliography within Great Britain.

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BY THE
UNITED STATES DEPARTMENT OF AGRICULTURE LIBRARY

WASHINGTON
D. C.

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A list of selected references on the Improvement of College Teaching is contained on pages 305-306 of the Proceedings of the Forty-ninth Annual convention of the Association of Land-Grant Colleges and Universities held at Washington, D. C., November 18-20, 1935.

According to the Extension Service Review, many literary programs are broadcast for farm and urban dwellers. Station KSAC is radiocasting a series of weekly half-hour literature programs. In the selections made by the head of the staff of reviewers are included such literary works as The Canterbury Tales, by Chaucer; The Oregon Trail, by Parkman; Stories of Vanished Frontiers, by Cooper; and The Vicar of Wakefield, by Goldsmith.

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SELECTED LIST OF MIMEOGRAPHED PUBLICATIONS
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Office of Secretary

Agricultural security. Address by H. A. Wallace before the American farm bureau federation, Pasadena, Calif., Dec. 9, 1936. 20 p. 1.9 Ag8636

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The consumer movement and the farmer. Address by D. E. Montgomery at the Association of land grant colleges, Houston, Tex., Nov. 17, 1936. 16 p. (Issued by Consumers' counsel) 1.94 Ad422Con

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Wildlife in land planning. By W. L. McAtee. 1936. 6 p. (Wildlife research and management leaflet BS-71) (Issued by Office of the Chief) 1.9 B524W

Commodity Exchange Administration

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Essential points to be covered in a research project outline. November 1936. 1 p. 1.9 Ex6Es

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(Extension service circular 248) (Issued by Division of cooperative extension)
1.9 Ex892Esc no.248

Photographs of farm and home; Catalog of a few of the photographs in the collection of the Extension service. Oct. 1, 1936. (Issued by Division of cooperative extension. Visual instruction and editorial section) 1.9 Ex892Phot

Report of home demonstration work, 1935. By G. E. Frysinger. Oct. 1936. 25 p. (Issued by Division of cooperative extension) 1.9 Ex892Esc

Some goals in farm family attitudes toward foods and nutrition. Suggested by Miriam Birdseye. Washington, 1936. 1 p. (Issued by Division of cooperative extension) 1.9 Ex892Sog

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Tours as a means of teaching land utilization. By W. M. Curtiss, Farm management specialist, New York State college of agriculture. Washington, 1936. 5 p. Presented Oct. 30, 1936, at National conference on the agricultural outlook and farm-family living, Washington, D. C. (Issued by Division of cooperative extension) 1.9 Ex892To

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Board foot volume tables for important timber species in Michigan and Wisconsin. Compiled by the Lake states forest experiment station for use in the forest survey of the Lake states. Nov. 1936. 22 p. 1.9 F7625B

Forests of South Dakota; their economic importance and possibilities. By E. R. Ware. 1936. 27 p. (Issued by Lake states forest experiment station, U.S. Department of agriculture, Forest service, Region 2, in cooperation with South Dakota State planning board) 1.9 F7625For

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Memorandum report on a selective logging study of the Winshella and sons tiemill operation near Lupfer, Montana. By I. V. Anderson. May 1936. 76 p. (Issued by Northern Rocky Mountain forest and range experiment station) 1.9 F7628M

Stand and stock tables for selected forest cover types in the Lake states. 1936. 40 p. (Issued by Lake states forest experiment station) 1.9 F7625St

Graduate School

Scientific research; its general purpose and how it contributes to public welfare. By Dr. John R. Mohler, Chief, Bureau of animal industry. Address, Department of agriculture, Graduate school, Nov. 20, 1936. One of special series of lectures on Department objectives, presented under the auspices of the Graduate school. 10 p. 1.9 Ag81Edo

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A revision of the numbers assigned to physiologic races of the leaf rust of wheat, *Puccinia triticina* Eriks. By H. B. Humphrey, C.O. Johnston, and R.M. Caldwell. Sept. 1936. 14 p. 1.9 P6917Rn

A simple method for the home preservation of pecans, by R.C. Wright. 1936. 1 p. (Issued by Division of fruit and vegetable crops and diseases in cooperation with Extension Service) 1.9 P772Sm

Specific research problems for the eastern United States soft wheat laboratory. Nov. 1936. 4 p. 1.9 P6917Sp

Bureau of Public Roads

Highway safety exemplified by properly designed and constructed highways. By R. E. Toms. 15 p. Paper presented during annual meeting of American association of state highway officials at San Francisco, California, Dec. 1936, 1.9 R535

Looking toward the highway future. 17 p. Paper presented by Thos. H. MacDonald at the 22d annual convention of the American association of state highway officials at San Francisco, California, Dec. 1936. 1.9 R53Loo

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Advance report on the sedimentation investigations of reservoirs and navigation improvements, New River, Virginia and West Virginia, Apr. 14 - May 22, 1936, by C. B. Brown and F. F. Barnes. (Division of research, Section of hydro dynamic studies, SCS-SS-6) Aug. 1936. 24 p. 1.96 R31R

Advance report on the sedimentation survey of Lake Bennett, Conway, Arkansas, Nov. 2-22, 1935, by L. M. Glymph, jr., and V. H. Jones. (Hydrodynamic studies, Division of research SCS-SS-9) Oct. 1936. 5 p. 1.96 R31R

Advance report on the sedimentation survey of Lake Taneycomo, Taney county, Missouri, July 23 - Nov. 2, 1935, by T. L. Kesler. Sept. 1936. 8 p. (SCS-SS-8) 1.96 R31R Taneycomo

Field-operation time requirements as affected by contour-strip cropping in an erosion-control program. By M. H. Cohee. 1936. 18 p. (R5-Ms-4) 1.9605 M68

Glossary of terms used in soil conservation. Compiled by S.H.Gaines. 1936. 146 p. (SCS-MP-15) Committee on definitions: S.D.Frissell, G. L. Fuller, G.W.Musgrave, C.E.Ramser. 1.96 R27G

Hand book of engineering practices. Region 11. Spokane, Washington, Aug. 28, 1936. 97 p. (Issued by Region 11) 1.9611 H19

Handbook of native woody plants of the United States. By W. R. Van Dersal. Section of wildlife management. 1936. 287 p. (SCS-TP-11) 1.96 Op2H

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Problems of soil erosion; information prepared for the Corn belt conference, Peoria, Illinois. Sept. 4, 1936. 6 p. (R5-Ms-1) 1.9605 M68

Soil and water. Albuquerque, New Mexico. 174 p. (Issued by Region 2) 1.9608 So3

Soil conservation practices. Des Moines, Iowa, 1936. 179 p. (Issued by Region 5) 1.9605 So3

Office of the Solicitor

Agriculture as a national problem. Speech by M. G. White before Texas agricultural association, Ft. Worth, Tex., Dec. 3, 1936. 16 p. 1.9 So45

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LIBRARY OF STATE INSTITUTES FOR AGRICULTURAL RESEARCH IN PRAGUE

Knihovna Statních výzkumných ústavů zemědělských
Praha XIX, Na cvičišti 2, Czechoslovakia

The Library was founded in 1920 as a reference library of State Institutes for Plant Production and at that time was not administered by a special librarian. Various institutes which now form the State Institutes for Agricultural Research in Prague (Director: Ing. Jan Pitra) were scattered all over Prague and each of the Institutes had its own reference library. When the Institutes were combined and moved in 1931 to Prague XIX, the reference libraries were also combined and a librarian was appointed. In 1936 the Library was reorganized and the policies and activities were definitely outlined.

The Library lends its books and journals first of all to members of the Institutes and then to other agricultural stations, schools, central offices, etc.

There are now 13 reference collections which are administered by the Library. These are:

- I. The library of the State Institute of Soil Science
- II. The library of the State Institute of Bioclimatology
- III. The library of the State Institute of Plant Biochemistry
- IV. The library of the State Institute of Plant Breeding
- V. The library of the State Institute of Phytopathology
- VI. The library of the State Institute of Meadows and pastures
- VII. The library of the State Institute of Horticulture and Enology
- VIII. The library of the State Institute of Animal Husbandry
- IX. The library of the State Institute of Animal Biotechnology
- X. The library of the State Institute of Milk Products
- XI. The library of the State Institute of Forest Soils
- XII. The library of the State Institute of Forest Protection and Game Keeping
- XIII. The library of the State Institute of Forest Economy

Number of volumes: Cca 30,000.

Number of periodicals: Cca 350.

System of classification: International Decimal Classification (Bruxelles).

Catalogues: All the usual catalogues.

Bibliographical Service: There is prepared for print a Bibliography of Agricultural Institutes, Stations and Schools in the last 100 years in the territory of Czechoslovakia. Yearly additions are to be prepared.

International Exchange of Publications: Our Library offers for exchange Sborník (Recueil) and Zprávy (Bulletin) of the Institutes for Agricultural Research and different reprints and occasional publications. The relations with foreign agricultural institutes and schools are very extensive.

Staff: Jan Tauber, Librarian
Marie Levinská, Assistant
Jirina Vítková, Assistant
Jirí Hurka, Assistant

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FARM LIFE INFLUENCE IN THE NEW AMERICAN ART

As the Library has had a number of requests for the article on "Farm Life Influence in the New American Art", by Caroline B. Sherman, which appeared in Agricultural Library Notes for April 1936, the article has been reprinted in separate form. Copies can be obtained on request. Mr. John S. Curry, one of the artists referred to in the article, has recently been appointed Artist in Residence at the College of Agriculture, University of Wisconsin. In commenting on the appointment in a letter to a friend in this Department, Mr. Chris L. Christensen, Dean and Director of the College, made the following statement which it is believed all library workers will be particularly glad to read:

"This appointment of John S. Curry as Artist in Residence at the College of Agriculture is a development which I have had in mind ever since I came to Wisconsin. In fact, I got the inspiration and the idea while studying in Denmark back in 1921 and 1922. As I moved about rural Denmark and visited with farm people in their homes I found an appreciation of art in the way of painting, good literature, furniture, and flower gardens which all gave expression to an appreciation of things in the cultural phases of life.

"To teach rural youth to grow better crops, select, feed and care for better livestock, and to conserve the fertility of the soil is only a means to an end. The end being better living conditions upon the farm, I have made the following statement on many occasions before Wisconsin farm audiences:

'Our goal is to help farmers create a rural economy and culture that will enable honest, industrious and intelligent people to live upon the land with their full share of joys and satisfactions. We must help develop agriculture so as to afford opportunity for living standards in the country comparable to those afforded young people who choose other walks of life. To create conditions on the land that will attract to it superior youth who will utilize their talent in the raising of better livestock and the growing of better crops and the building of better farms to the end that they may attain and maintain better rural living. In speaking of this kind of a rural economy and culture I have in mind the maintenance of an acceptable standard of rural living, capable of promoting cultural growth.'

"I feel very definitely that education in our agricultural colleges must be broad and include many things beyond those methods and practices used in making money. This, I believe, holds in our agricultural extension work as well as our campus teaching.

"Our educational process needs to deal with good literature, art, music, history -- the cultural side of life as well as the practical training for better farming. An understanding and appreciation of art -- good paintings -- I believe is an important phase of an enriched cultural development among rural people. It is in line with this general philosophy that we here at the College of Agriculture, University of Wisconsin, are making place on our staff and on our campus

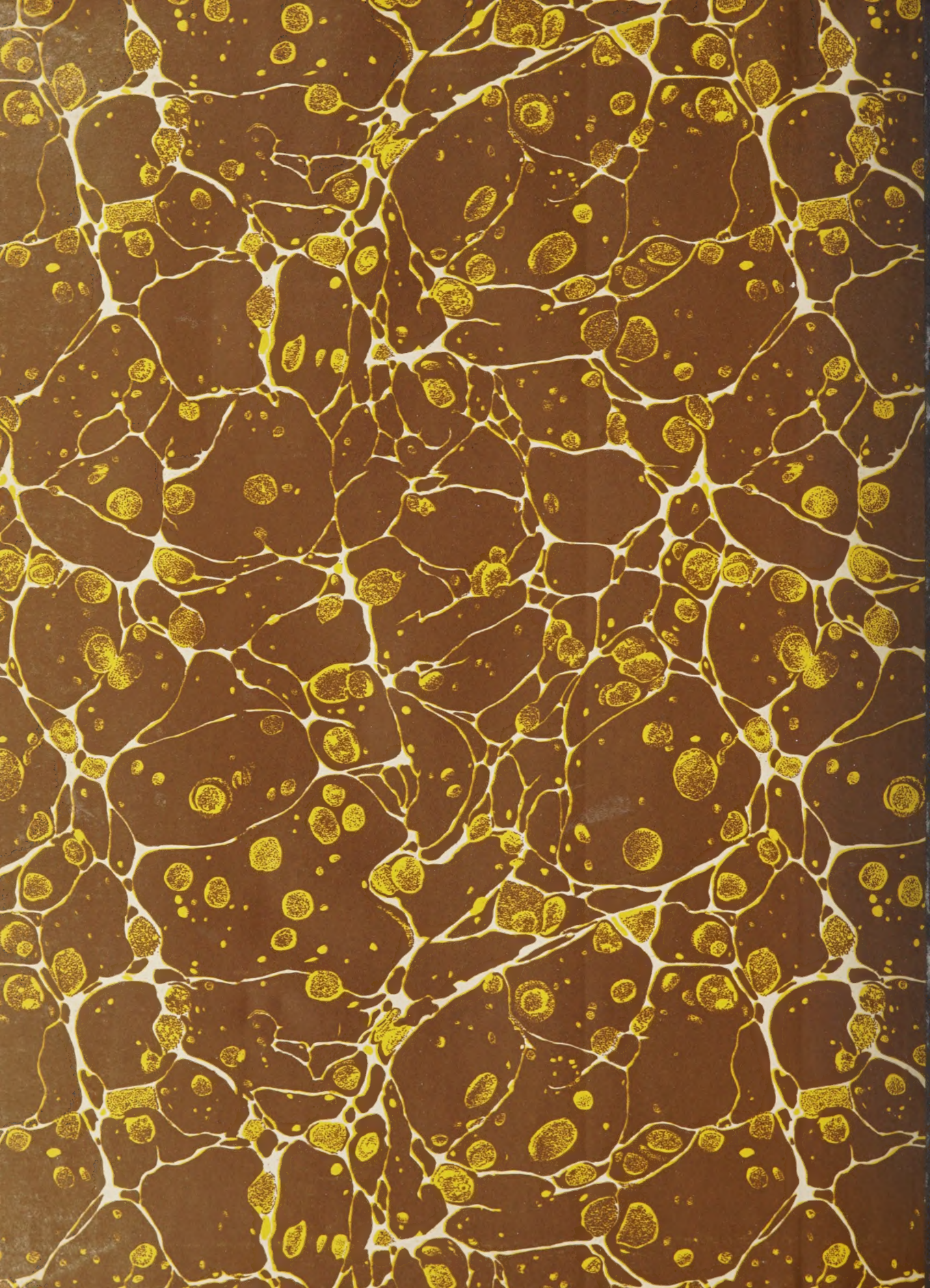
FARM LIFE INFLUENCE IN THE NEW AMERICAN ART
(continued)

for a creative artist in the personality of John Steuart Curry. When I say 'creative artist' I mean just that, because Mr. Curry's time will not be occupied with resident teaching. We are providing him with a studio on the agricultural campus and he is free to devote his time to his creative work in his studio exactly on the same basis as other members of our staff devote their time to research work in our various laboratories. He will also have some time to talk with students in an informal way on our campus and we are hopeful that he will be able to devote some time to talking with rural people over the state. But as you know, his primary interest is in the field of creative work -- painting -- and his life and work is rooted with people on the land. It is to be expected that the atmosphere and spirit of farm life will be re-created and preserved on his canvasses.

"So I will close with a bit of philosophy which in my thinking applies equally to the members of our staff and the farmers of the state: Progress in material things is satisfying in the final analysis only if it relieves the individual of care and worry and makes him free to grow as a personality. An environment that combines a good rural economy and culture is necessary to promote cultural growth."

Mr. Curry's studio on the agricultural campus has walls 16 feet high which will provide ample room for mural painting. In an interview with him that appeared in the Wisconsin State Journal for December 4, 1936, he said he was looking forward eagerly to meeting the students, particularly the boys in the short course. He hopes to pick up one or two talented farm boys and make real artists of them. He took with him to Wisconsin his unfinished murals for the Department of Justice building which will probably be ready by March. It is his own opinion, as well as the opinion of certain art critics, that some of his most vital work consists of the paintings he made of the farm lands of his native Kansas. He hopes to do similar work for Wisconsin.

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